

77

PUBLICATIONS
OF THE
CLARK UNIVERSITY LIBRARY
WORCESTER, MASS.

Vol. 8

JANUARY, 1934

No. 6

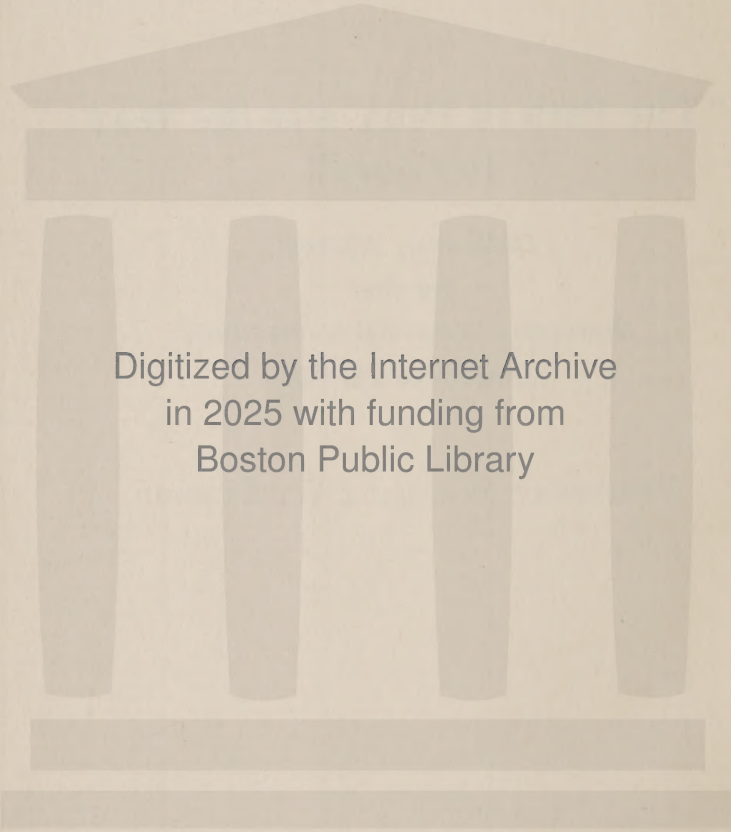
“The Path of Duty was the Way
to Glory”

Dedicatory Address
for the
Worcester Memorial Auditorium
September 26, 1933

By

PRESIDENT WALLACE W. ATWOOD

Clark University Library
Worcester, Mass.



Digitized by the Internet Archive
in 2025 with funding from
Boston Public Library

“The Path of Duty was the Way to Glory”

Address delivered by President WALLACE W. ATWOOD, at the
dedication of the Worcester Memorial Auditorium,
September 26, 1933.

One hundred and sixty-three years have passed since the call of Lexington was answered by the forefathers of many of you in this audience. Their service made possible the establishment of this nation. In the years that followed whenever our country called, the men and women of Worcester responded and many of those who went to the front gave their lives that this nation might stand.

Sixteen years have passed since we were drawn for the first time in our history into a terrible world war. For nearly three years frightful atrocities had been committed and, as a people, we were aroused to a high state of excitement. We feared that the human liberties, for which our forefathers had sacrificed so much and which our country symbolized, were imperiled. We feared lest the world should no longer be safe for democracy. Some feared that we might be overpowered by the forces of Central Europe unless the Western nations of that continent were victorious. We saw our institutions and ideals threatened with destruction unless the armies of Germany and her Allies could be vanquished.

The people of Western Europe sent tons of inflammatory literature to arouse our enthusiasm and awaken the belief that we must enter the great struggle with them. Finally the armed forces of the Central Powers committed crimes against our country which we could not ignore or forgive. We were forced to enter the conflict. Long before that day many of our people had felt the impelling justice of the cause of the Allies and had enlisted in their service. When the call to the colors rang out over our peaceful states, men and women throughout this land strove to find opportunities for service in order that the conflict should end quickly with victory on our side. No thought was ever given to the possibility of failure. The nation was inspired by the slogan “A war to end wars.”

9165 ENLISTED FROM WORCESTER

Nine thousand one hundred and sixty-five persons of this city enlisted and served during that terrible conflict either in the military or naval forces of the United States. Others who could not enlist in such service gave just as unselfishly of their time to help win the war. Food suitable to send abroad was conserved for those

at the front. Community gardens were established in cities and villages. Knitting needles appeared at all public gatherings, such as lectures, theaters, and churches. Hundreds of thousands of mittens, socks, and sweaters were thus prepared and sent to those in the trenches. Men, women, and children all did their bit. It took between twenty and thirty people at work here at home to keep one man equipped and at the front.

With eyes dimmed by tears, but with staunch hearts, heroic men and women held to their tasks but each day scanned the news for word of the loved ones—"over there." Three hundred and fifty-five of those who enlisted from Worcester made the supreme sacrifice in the effort to close that terrible conflict. They ventured far in the cause of liberty.

We come together tonight as a grateful people to dedicate this magnificent Memorial Auditorium and to honor the services in war of the sons and daughters of Worcester, but we dedicate the building also to the high purpose of nourishing in peace their spirit of sacrifice. For them "The Path of Duty was the Way to Glory."

We all need lofty ideals to nerve us for heroic lives. Those of our fellow citizens who, putting self aside, served the country during those fateful years were inspired by loyalty, the noblest quality of citizenship. They were loyal to the nation and loyal to the ideals which we believe should be considered sacred. They did all they could; they served in the hope that they could establish an enduring peace on this earth. No honor is too great for them; and we gather together tonight, nearly fifteen years after the Armistice, ever mindful of our appreciation and our great debt of gratitude to those who served in that struggle.

THE TASK UNFINISHED

It may be too early for us to judge the meaning of the World War. Perhaps the historians and philosophers who will weigh correctly the significance of that struggle in the progress of mankind are yet to be born. We have but fifteen years as perspective, and all of us who in any way served during that terrible catastrophe are unavoidably influenced by the antagonisms and passions which fired our imaginations during the periods of action. We can never forget the unprecedented horrors and cruelties of that great conflict.

One thing, however, seems certain. The task, for which those whom we are memorializing tonight gave their lives and for which most of us in this audience contributed in some way, is not finished. The world seems no safer for democracy than it was in 1914. The World War did not end wars. Two wars are now waging in South America. Virtual warfare at present rages in the Far East. We cannot but appreciate that the so-called peace treaty signed in 1919 has so restricted Austria and Hungary that they are no longer

self-supporting and the possibilities for human happiness in those lands are all too small for the number of people who seek a living there. Unhappiness and discontent are increasing in those nations. Injustices in boundary settlements have bred new hatreds. Russia broods over the loss of her Balkan provinces and Bessarabia.

Over the doorway of the town hall in a little Silesian village in southeastern Germany is the motto "We suffer but we do not forget." The most beautiful coin in the German mintage bears the words "The Rhine is a German River, not a boundary." From one end of that country to the other, intense hatred of France unites the whole population. Germany has been to a great extent disarmed, but enormous contingents of her youth are growing to military manhood. They are inspired with the fiercest of sentiments. The soul of Germany smoulders with dreams of a military revolution and revenge. Germany cannot be kept in permanent subjugation.

France is heavily and efficiently armed for she realizes that her position is perilous. She fears attack from neighbors on almost every portion of her boundary, and has therefore strengthened the fortresses and increased the number on guard on each frontier. Political and social conditions throughout Europe today are far more unfortunate than they were in 1914. Let no one think for a moment that the danger of another explosion in Europe is passed. Economic war is raging throughout the world and the solution of the problems which that warfare presents is beyond the present ability of man.

How long must we wait for the effective control of *international law* and the universal use of *international courts of justice* and the establishment of *international boards of arbitration*? How have we "carried on" the unfinished task these boys and girls bequeathed to us? Whither does our path of duty lead today?

WAR A VERY ANCIENT CUSTOM

Through the centuries of human history bitter conflicts have marked the various stages in what we consider the progress of civilization. Barbaric and savage tribes fought whenever they came within reach of each other. Feudal lords maintained forces for their protection and for aggression. Absolute monarchs used military forces to maintain their positions and to satisfy their personal ambitions, and when tyranny became intolerable, groups of courageous men arose in their wrath and, resorting to war, deposed their cruel rulers, abolished unjust practices and established liberties for themselves and their children.

Centuries passed before true democracies were established. Many of the human liberties which democracies enjoy today have been won through bitter struggles and have cost the lives of thou-

sands who rushed into the conflicts fired with an idealism of service, inflamed with the desire to establish what they thought was right and just for humanity on this earth.

Today the costs in lives, in the sufferings of multitudes, in the terrible burdens inflicted on future, innocent, generations, make the old-fashioned enterprise of war a silly, stupid and extravagant folly. It is a costly and gruesome relic of savagery and its continuance threatens the destruction of civilization.

A GRAND SCRAMBLE FOR LAND

The first settled communities in the world were probably established by groups of farmers. They soon found themselves harassed by nomadic herdsmen. The Great Wall of China was built by a peace-loving agricultural people to keep off the marauding hordes of nomadic shepherds and herdsmen. The boundary lines of most of the older nations of the world are dotted with fortresses and barracks because there yet remains the fear of attack from neighboring peoples. The world has not yet established independence and security for the several nations.

As the centuries have passed, this planet has become more and more crowded, and in some parts of the world it is today difficult to find parking space.

The stronger nations have become imperialistic and have reached out and occupied distant lands wherever they could. Long after the rise and fall of the ancient empires of the eastern and middle Mediterranean peoples, Spain and Portugal took the lead and, in the fifteenth and sixteenth centuries, acquired distant colonial lands. They held the leadership for a time and then declined in power and lost nearly all their colonies. In turn rose the British, French, Italian, and Dutch nations and they acquired vast lands in distant parts of the world. The United States added to her lands, chiefly by purchase, and became an imperial nation.

Widespread imperialism led to a grand scramble among the nations for the last unoccupied lands on the earth. It was late when Germany and Japan entered the race. The former acquired colonies in Africa and the Far East which were taken from her at the close of the World War. The latter is not yet satisfied. Today there is no land on this earth worth having that is not jealously held by some nation. The time has come when no nation can extend her domain without trespassing upon the sovereignty of some other nation.

THE ANNIHILATION OF DISTANCE

With the passing of the centuries came a tremendous influence in the world through the development of science and technology. The great physical barriers that had long held the people of the

world apart were broken down. The oceans that for centuries were obstacles to travel became great highways. The mountains, deserts, and dense forests were conquered and man learned to go in ease and comfort anywhere he chose. He even pre-empted the air in the search for new highways.

As man learned how to speed up communications he eliminated much of the time that had formerly been used in dealing with people in distant lands. Electricity transmits messages for us from one end of a continent to the other and beneath the seas to far-away places. Electricity carries the sounds of our voices through the air and to the uttermost parts of the world. No one factor in this changing world has so modified human relationships as the annihilation of distance. The nations today work elbow to elbow. We have been forced to realize that we are all influenced by the fortunes and misfortunes of one another.

THE CRY OF THE WORLD

Little by little as the nations have been drawn nearer and nearer together, they have established new bonds of friendship and association. They have achieved coöperation in the distribution of mail and in communications that come by wire or through the air. Thus, each year millions of messages of affection, good will and sympathy float on the high seas or in the air from one part of the world to another. The different peoples have provided for the free exchange of the best literature. They recognize their indebtedness to the great musicians and artists and scientists of other nations. Fully ten thousand students from foreign lands enter our educational institutions each year, and many American students register for study in foreign countries. Intellectual coöperation is being promoted by many international organizations. A world-wide human sympathy for the unfortunate has arisen and each great catastrophe, whether it comes from famine, floods, earthquakes, hurricanes, volcanic outburst, or any other cause, calls forth help from individuals and from nations in various parts of the world.

Travel wherever we may from one end of the world to the other and mingle with the people of different nations of the world and we find very few who desire conflict. The huge masses of people in all countries want freedom to till the soil, to work at useful arts or to render services in their home communities. Above everything they desire opportunity to establish happy homes.

The one outstanding, greatest wish of the world today is peace.

THE DAYS OF ISOLATION HAVE PASSED

The long ages of isolation have now passed and the different civilizations which developed during that era have come into

conflict. The ideas of the Near East, on the lands bordering the eastern margin of the Mediterranean, clashed several decades ago with the ideas of Western Europe and the New World. During the period of adjustment thousands of Turks, Greeks and Armenians were massacred. Today the ideas of the Far East conflict with the ideas of the Western civilization. Those ancient oriental civilizations made wonderful progress in many ways. They proclaimed lofty religious concepts, formulated by their philosophers hundreds of years before the birth of Christ. High respect and love for parents, love for the beautiful in the home and in the landscape and in human character characterize the best of those people. They did not develop mechanical power as did the nations of the Western World. They did not develop great desire for world commerce as the Western nations have done. Their desire to remain isolated conflicted with the spirit of the other nations and pressure was brought upon them to open their doors and enter into commerce with the other peoples of the world. China is today in the midst of a series of revolutions involving changes in political affairs and in educational, economic and social customs. She is endeavoring in a few years to bring about changes that the nations of Western Europe took centuries to accomplish.

WHAT BARRIERS REMAIN?

There remain, however, today certain barriers that are keeping the peoples of the world apart, and preventing cordial coöperation. Why are fear, suspicion, and hatred widespread? Why do most of the international conferences, dealing with the problem of disarmament or with political or economic affairs end in failure?

International understanding cannot be built upon fear or suspicion or hatred. It must be built upon mutual understanding and good will. We know today that an enduring peace cannot be established by competitive arms or by intimidation. Nobody can believe today as some did before 1914 that wars in this world are any longer beneficial. Before that date one who believed in the need of peace was considered somewhat a fanatic. Today not to believe in the need for peace is to be the village fool.

Fear is largely due to suspicion, and suspicion is usually born of ignorance. One of the greatest barriers left between the peoples of the world is their ignorance of each other. This country, although it has become the haven for people from many lands, has often failed in its effort to understand the problems of other nations. We have rested content for the most part to learn but one language. When the World War broke, many of us knew little even of the location of important places in Europe and still fewer knew aught of the ideals and aspirations, the problems and difficulties of the people across the sea.

One good result from our participation has come from the close contacts we made across the seas during those years. We commonly fail to sympathize intelligently with other people because we do not understand their ideals and their problems. We fail to imagine ourselves in their places.

Excessive greed and excessive nationalism are breeding selfishness and even hatred among the peoples of the earth. The remaining barriers are not physical obstacles. They are barriers that cannot be removed by science or technology. They are attitudes of mind, which depend upon the mental and moral characters of individuals and therefore of nations.

AN INTERDEPENDENT WORLD

The nations have inherited the tradition of never yielding except to force. Do they need further lessons or examples of the folly of trying to settle international problems by force? Has not the day come when it is better to compromise, even to yield some present advantage, in order to maintain peace on this earth? The day has come when the delegates of the nations should meet, and with intelligent sympathy, face the international problems associated with disarmament or with political or economic affairs, and by compromises produce results more beneficial in the end to all concerned than armed force can ever again produce. Most of the miseries in the world during the last few years are directly traceable to the failure of the world to recognize the fact of its interdependence.

TENNYSON'S DREAM

In 1844, long before anyone had invented an airship, and long before anyone had suggested the League of Nations or an earth governed by law, Alfred Tennyson, poet laureate of England, wrote these lines:

“For I dipt into the future, far as human eye could see
Saw the Vision of the world, and all the wonder that would be:
Saw the Heavens fill with commerce, argosies of magic sails,
Pilots of the purple twilight, dropping down with costly bales;
Heard the Heavens fill with shouting, and there rain'd a ghastly dew
From the nations' airy navies grappling in the central blue;
Far along the world-wide whisper of the south-wind rushing warm,
With the standards of the peoples plunging thro' the thunder-storm;
Till the war-drum throbb'd no longer, and the battle-flags were
furl'd
In the Parliament of man, the Federation of the world.
There the common sense of most shall hold a fretful realm in awe,
And the kindly earth shall slumber, lapt in universal law.

HOW CAN THE LAST BARRIERS BE REMOVED?

We face today the problem of breaking down the last barriers to the establishment of justice and peace on this earth. The work was not completed in 1918. It remains for us and for future generations to carry on the work of those whom we honor tonight and establish justice, permanent peace, and good will upon this earth. Our path of duty is clearly defined.

Out of the terrible tragedy, of which we are reminded tonight, has come the realization of the solidarity of human society and the necessity of close organization if any civilization whatever is to endure. We now realize that we are fellow passengers on the same planet and equally responsible for the happiness and well-being of the world in which we live. Can we not behave as well as we should if we were on a great transcontinental train or a huge ocean liner bound for some unknown destination? Our appeal need not be based upon sentimentalism but upon good common sense and a desire for justice and good will on this earth.

This great task can only be accomplished through education. Our schools are filled with boys and girls who know nothing of the World War except through what they have read or have been told. Young people who were born during that period are now applying for admission into our colleges. It is our sacred duty to see to it that each coming generation is educated to appreciate that wars are now futile. Through education, through the development of public sentiment, throughout this nation and throughout the other nations of the world, we must establish a new method for settling disputes between the peoples living upon this earth.

THE HIGHEST MEANING OF PATRIOTISM

Loyalty to the ideals and aspirations of one's country is commendable, but loyalty to an idealism broad enough to include the welfare of all humanity, gives patriotism its highest meaning. We should free our patriotism from the restrictions of narrow nationalism and provincialism. We should endeavor to secure for the people of this country and, in so far as it is possible, for the people of the rest of the world, freedom to live and pursue their lives in comfort and in happiness. International principles and policies should secure equal justice and safety to all nations. All nations should associate themselves permanently for world peace and good will. There is little hope of finding a way out of our present international chaos until a treaty has been concluded which provides for reduction in armaments.

We wish this great country of ours to stand in the front, not in power of arms, but in the better understanding of world problems and in the nobility of ideals. May she always maintain her traditional position of directness, fairness, kindness, justice, and generosity.

No nation can achieve true welfare, greatness and honor unless it deals justly with other nations of the world. Selfishness on the part of a nation is no more praiseworthy than when confined to the individual, and nations are healed of their selfishness only in proportion as their constituent individuals are liberated from the bondage of selfishness. Any nation that endeavors to solve its problems irrespective of its relations to other nations postpones the final settlement. The greatest and truest development of patriotism today demands the practice of good will between nations.

A TERRIBLE BOOK MAY BE WRITTEN

What is the alternative? The last world war was based in large part upon the use of steel. The suggestion has been made that the next great war will be fought with electricity. Imagine electric rays which could paralyze the engines of the motor cars, claw down airplanes from the sky, and possibly be made destructive of human life or human vision. Imagine a war fought by explosives dropped from the skies, of a bomb no bigger than an orange with the power to destroy a whole block of buildings and all of the inhabitants within that area.

Means of destruction incalculable in their effects have been invented and the progress of science may unfold still more appalling possibilities. Only the first chapter has been written of a terrible book if poison gases in all their forms are used in another war, and only the first chapter has been written in a terrible book if disease and pestilences are methodically and deliberately launched upon great centers of population. If another world war breaks out there will be no chivalry, no honor or glory, no distinction of age or sex, no distinction between the sick and the healthy. There will be no immunity for culture. There will be nothing but flying invisible shapes raining death and desolation throughout the world. The nations that enter into another world conflict may, through the tremendous power of science and technology, be swept from this earth. The outlook is appalling. Mankind menaces itself and becomes its own means of destruction.

Surely there is sufficient sense left in this world to guide human actions to a saner way, through arbitration and through compromise, to the settlement of difficulties that arise. We have no excuse for shutting our eyes to the gigantic problem. The destiny of civilization depends upon our capacity as educators and as citizens of this great liberty-loving nation to deal with these world problems. There must develop in each nation a determination to solve international difficulties through arbitration and courts of justice. We should aim that our sons and daughters spend their energies on constructive, not on destructive, work.

THE PATH OF DUTY

Over and over again in the history of this world the "path of duty was the way to glory." Tonight while we are here to remind ourselves of the services rendered to this nation and to the world by our citizens, we should dedicate our lives to the unfinished task which they set for themselves and for which many in our community and in other communities throughout our land and in other lands made the supreme sacrifice.

A DEMOCRATIC MEMORIAL

In this beautiful temple we shall gather over and over again. We shall hear in this hall the voices of distinguished representatives of this nation and of other nations. Here we shall enjoy the best of music that has been or may be produced in any part of this wide world. Here we shall see enacted the greatest of literary dramas. Here we shall view magnificent pageants conducted on this spacious platform. Here we may illustrate the play and interplay of nations.

No more appropriate or more democratic memorial could have been planned. We are deeply indebted to the group of generous, public-spirited citizens who had the vision and took the first steps to make this magnificent temple possible. We are also deeply indebted to those who faithfully watched over the construction of the building and safeguarded it for a beautiful civic center.

A TEMPLE OF PEACE

It was in the Commonwealth of Massachusetts that American liberty raised its first voice. May we not on this occasion, while gathered together in the midst of the beautiful forest-covered hills of that Commonwealth, ready to dedicate our War Memorial, sound the note for a still greater liberty that will free the world from the bondages of war and dedicate this building as a Temple of Peace. Here we may help to establish more firmly democratic ideals and come to sympathize more intelligently with the other peoples of this planet.

ALL HONOR TO THE HEROES OF WORCESTER

In our audience there are many who are naturally reminded tonight of their own personal losses and the grief which came to their home firesides or blighted the hopes of some prospective homes. To them we are particularly eager to extend our sympathy and our gratitude; we would remind them with those beautiful lines of Tennyson that throughout all of human history

“The path of duty was the way to glory;
He that walks it, only thirsting
For the right, and learns to deaden
Love of self, before his journey closes,
He shall find the stubborn thistle bursting
Into glossy purples, which outredden
All voluptuous garden-roses. . . .
The path of duty was the way to Glory;
He, that ever following her commands,
On with toil of heart and knees and hands,
Thro’ the long gorge to the far light has won
His path upward, and prevail’d,
Shall find the toppling crags of Duty scaled
Are close upon the shining table-lands
To which our God Himself is moon and sun.”

PUBLICATIONS
OF THE
CLARK UNIVERSITY LIBRARY
WORCESTER, MASS.

Vol. 8

JUNE, 1934

No. 7

Twenty-five Years After Graduation

Commencement Address

June 11, 1934

By

CLARENCE P. SHEDD

Clark University Library
Worcester, Mass.

Twenty-five Years After Graduation

Commencement Address

June 11, 1934

BY CLARENCE P. SHEDD

President Atwood, Members of the Board of Trustees and Faculty Members of the Class of 1934, Friends:

You could have conferred upon me no greater honor than this invitation to deliver the Commencement Address on this occasion of the twenty-fifth anniversary of my graduation from Clark College and the twentieth anniversary of my taking the M.A. degree from Clark University. Sensitive as I am to the personal significance of this honor, I nevertheless accept it quite as much as an honor to my college class which is this year holding its twenty-fifth reunion. We are a rather lively crowd of youngsters and but for the ownership of sons and daughters of college age and other superficial signs of middle age, we might attempt to palm ourselves off as members of the present graduating class.

Today we would acknowledge our indebtedness to Clark and its devoted, scholarly and companionable faculty. We pay tribute to Clark because from its beginnings it has dared to blaze new trails and has refused to be just one more liberal arts college. Its primary emphasis on independent scholarly work, its university spirit in the search for truth, its insistence that truth as it is discovered should possess a man, its concern that history and economics be of significance in bringing about social change, its conception of a learning process centering in kindling comradeship between students and faculty—these are some of the characteristics of our Clark educational experience that make it significant in these reunion days. These values have infinitely more meaning in these days of rapid social change than in the past—indeed they are today the dominant characteristics of the most significant experiments taking place in American higher education.

Twenty-five years ago the Commencement Address was given by one of the really great divines of New England, a man whose leadership I followed and whose memory I revere. I want to make a few quotations from that address because it will make more vivid the road the world has travelled since that lovely June morning and will help us gauge more clearly the task that lies ahead.

The speaker told us he came "from the great busy rolling grinding tumbling world" where he found "that human beings" were "a

queer lot." "Very little malice, very little perversity, only incidental inhumanity, but, to quote Carlyle, 'blind blockheads running athwart one another on their own errand through the world'." He advised us that "no goal is gained" without work "and that even our best work might end in external failure"—"the challenge to the educated man was that of being able to meet defeat with composure and dignity, with a spirit that is itself the greatest success." We were exhorted "to follow after Love, the creative spirit of a noble humanity—the economic motive that runs the world, the patriotic motive out of which all great states come and the origin and sustaining power of religion."

But the climax of this address came when the speaker said that "after love comes business" and that he was "glad to see that so many of us were alive to this immediate and urgent successor." Counselling us in the words of Robert Burns "to gather gear by every wile that's justified by honor," he said: "You are young; you are strong. The chances of work are before you. You will be rewarded for your work. Thrift, accumulation for independence and for freedom. Until you are independent you can't tell the brutal world that it is brutal. You can't confront the tyrant and defy him, if he can take away your dinner. Oh, friends, there is no gospel that this land of freedom needs more today—great free noble country that it is—than just this: attend to sense, work, wages, thrift, accumulation, independence."

Thus far the commencement speaker of 1909! These quotations are not given to indict the blindness of the speaker, for he was quite accurately reflecting the views of his audience, including the members of the graduating class. They show the naïve acceptance of a social order which then had in its very organic constitution the makings of our present world-wide depression and class struggle. Because this disease of the social order was hidden by the ever expanding—and seemingly unlimited—opportunity for commercial success created by world markets it was still possible in 1909 to hold out to youth the allurements of business as the road to that security and independence which are legitimate desires of all of us. In this call to "seek accumulation and independence" there was no evidence of troubled conscience about the cost of this independence in suffering and loss of real freedom to others—the hundreds of thousands who wanted work, and even in those days could not secure it, the women and children and aged workers whom the system sacrificed for the sake of profits which gave independence to the "thrifty" few.

Nor was there awareness of the fact that in the international struggle for markets there was to be found one basic cause for the impending race in armaments and the World War. The generation that inducted us into the world had known only one war—the

Spanish-American—and that was a “garden party affair” out of which the United States emerged with colonial possessions and a President who was to “speak softly and carry the big stick.” War on a large scale seemed to most of us in 1909 impossible, for did we not have the Hague Tribunal, arbitration treaties, innumerable peace societies and such a cultural and commercial interdependence with other nations as to make it unthinkable and absurd? So that June morning in 1909—only five years before the holocaust of the great World War—no distant roar of guns spoiled this alluring call to carve out for ourselves a life of comfort, security and financial success. We were pushed off into the world that morning by a generation that, whatever its questions, practically rooted its philosophy regarding the social order in the idea that “God’s in His heaven—all’s right with the world.” There were, of course, protesting voices, but all the observable facts seemed so much against them that they were easily made to seem irrelevant. At any rate, even granting that some things were wrong, there was a sublime optimism that led to belief in the inevitability of progress, and that gave a confidence in the power of reason and individual goodness to control necessary changes. It was a generation that knew vastly more about the forces that control individual behavior than it did about the impulses that control the corporate mass activity of great collectivities—whether class, racial, or national.

The events of the last twenty-five years have proven that we were all living in a fool’s paradise. In our rugged individualism, our tolerance of a system which allowed the few to build up vast fortunes at the expense of the many and the competitive warfare between nations for the markets of the world there were the germs of organic disease, the deathly character of which became apparent only in the World War and the subsequent world-wide economic depression.

We of the Class of 1909 were born a decade too late to “profit” by the virtues and rewards of the old order. We had scarcely begun our careers in business and professions when the years of madness began, the four years of international slaughter, years in which we saw mankind at its worst and its best. In rapid succession our years were filled with glorying in a President “who kept us out of war,” then accepting the burdens of war, then “Wilson’s Fourteen Points,” the iniquitous Treaty of Versailles, redeemed only by the possibilities inherent in the League of Nations. Then came Harding with his “return to normalcy”; Coolidge with his thrift campaign and years of false prosperity; Hoover and his promise to end poverty, his “prosperity around the corner”; and then the “sure enough” depression with collapse of the banking system, and Roosevelt with the New Deal, his courageous handling

of the banking problem, the mystifying collections of letters, and above all, his resounding call to discipline and sacrifice for the common good.

Members of the Class of 1934, we give you the world. If we cannot be proud of the gift, there is at least some consolation in the knowledge that you know what you are getting. Lest you think there is nothing to this world but "economic determinism," let me remind you that it is a world quite as full of goodness and beauty as it was in 1909. If you seek you may have the companionship of great and good men and women; be thrilled by the beauty of trees and flowers, lakes, mountains and sea; know the songs of the birds; enjoy man's great works of art—cathedrals, museums, paintings, sculpture; and above all, there is the stirring of mind and heart that comes from the trust, the prattle and laughter of little children. "Except ye become as little children" is still the key that unlocks to us, now as always, many of the treasures of the life of the spirit.

Yet we must also give you a world that by the very character of its corporate life puts almost impossible obstacles in the way of the achievement of those treasures of the spirit for millions of your fellow men. For your world of 1934 is one in which millions who want work can't get it. It smashes our American idea of equal opportunity for all and of there always being a place at the top of the ladder. There is certainly no one in this room who doesn't number among the ten million unemployed in our own country several relatives and friends who have been without work for two or three years. You know only too well what a small proportion of college graduates will find jobs this year, and especially jobs for which their training has fitted them. Tragic as is the physical suffering and economic waste, yet it is as nothing compared with what such unmerited experiences do to the human spirit. I saw it in Germany and Great Britain, where long before our depression had started millions of men and women were beginning to make the mental adjustment to the fact that perhaps they would never have jobs again, human beings cast off by a society that had unwittingly used its best thinkers and scientists to so perfect philosophy of social organization and the machines of society that they would destroy the very prosperity and independence which they were striving to create. Do you remember that place in Hans Falada's "Little Man What Now?" where the small town haberdashery clerk who, although long a victim of the spreading unemployment has nevertheless kept his integrity and self-respect, standing in front of the shop window in Frederich-Strasse in Berlin coveting some of these beautiful things for his wife, suddenly is startled by the fact that a policeman with his night stick follows, always shoving him on further? Then it comes over him in a sickening

flash that he, an honest, God-fearing laboring man, has come to the place where he looks like a "street bum" and is being treated as one. It is only the picture of the inner experiences of hundreds of thousands of our fellow men who are rapidly falling into the place where they regard themselves as cast-offs. We give you a world where, because of our inability to master it, millions of men, women and children last winter were cold and hungry—and millions next winter will suffer the same fate—and our only help is to offer philanthropy where there should be justice.

It is a world professing brotherhood—wanting peace, yet paralyzed in its collective efforts to build up the machinery of peace. One cannot look at the collective failures of mankind in this realm and feel that *reason alone* has much power to save. I sat through most of the meetings during the first five months of the Disarmament Conference in Geneva and must confess that the only program which seems to have any rationality to it was that of Soviet Russia calling for universal total disarmament, and yet it had to be laughed at as "irrational" because collective fears and emotions are more powerful than pure reason. The world of 1934 is one in which there is *opposed to democracy*—fascism and communism—theories of social organization which take on the character of Absolutes, silencing freedom and discussion, demanding discipline and sacrifice and commanding allegiance where democracy seeks to persuade. Inextricably interwoven with these is the renewal of extreme national fears and racial hatreds.

Youth suffers most, for in all lands the securities that could have been reasonably promised them have vanished. What is the meaning of vocation in a world where you have no sense of the permanence of that vocation or where it is already overcrowded? I visited many universities in Germany and Austria during the year before Hitler came into power. It was then clear that if the universities were to be closed for ten years there would still be more university graduates than there were available professional opportunities. Yet the universities have been overcrowded, lectures attended as never before and competition in examinations made more feverish than ever before. This overcrowded university situation was itself one of the most dramatic evidences of the national economic insecurity; as long as young men and women could eke out an existence studying, that was surely better than trying to get jobs in a world which did not want them. In Graz in Southern Austria I found a student, typical of many, who had taken his doctorate first in Philosophy, then in Law, and when I saw him was working for a medical degree.

But there are more promising sides of this picture of your world and mine. It is a good thing to be done with the illusions which controlled until 1929. We can be thankful for national poverty

in so far as it is a small force in delaying most costly preparations for war. Imperfect as it is, burdened as it is by its connection with the Versailles treaty, nevertheless, the League of Nations represents the best machinery the world has seen for building international accord. It is up to those who oppose to propose a better vehicle for settling international difficulties.

But the most hopeful of all is the new spirit of continental European youth, a spirit that in differing ways is spreading among the youth in America.

The youth of continental Europe is on the march. They are tired of a "freedom" and "liberty" which has brought them only disillusionment and chaos instead of the beauty and brotherhood which it promised in the hours after the close of the World War. Whereas the revolt of youth in 1918-1923 was against the petty conventions that hindered personal liberty, today it is against social institutions that have brought disaster to their countries and the world. They want to follow leaders who seem to know where they are going and who dare substitute courageous social action for interminable and fruitless discussion. It is here that one finds the reason for the fiery devotion of youth—and especially university youth—to communism in Russia and fascism in Italy and Germany. The bitter winds of adversity have blown so long that youth cannot fold its hands and wait when nothing but ruin stares it in the face. Lost and lonely in such a world the old youth movement shibboleths of self-expression and self-realization seem meaningless. Youth realizes that significance and meaning can only be restored to life through losing itself in some Cause that seems to promise radical social reconstruction. Youth, whether nationalist or communist or democratic, wants *Leadership*, movement—a sense of direction—and is prepared to put discipline, obedience, responsibility and even regimentation in place of what seems to them to be the futility of the old freedom. Here lies the peril and the promise for the peace of the world; the peril if the jingoistic notes in these nationalistic movements prevail but the promise and guarantee of peace if protestations of desire for world peace and some of the programs for social reconstruction inherent in these movements become controlling.

In such a world as this what, then, are the responsibilities of all of us engaged in the work of higher education—faculty, students, and alumni? I can only indicate in barest outline four of the most urgent tasks as judged by their effect on a changing social order. Members of the class of 1934, it is around these and related tasks that I would have you in conscious comradeship with youth and the dispossessed of all lands find your *true vocation* in the days ahead, whatever may be the basis for financial livelihood.

First, we must redefine the aims of higher education in relation

to the social order, putting in central place the purpose to develop both intelligent social concern and the capacity to think clearly and independently. The most conspicuous failure of the American college has been in developing the quality of mind that has both these attributes. We are at a moment in history when we cannot choose to do one at the expense of the other. The times call for far greater emphasis than in the past on the joy of independent research and discovery. There are some progressive secondary schools that are doing a better job than many of our colleges in training students for intellectual independence. What an inspiring educational program is that announced by President Atwood for improving the already excellent record of Clark in this field!

So long as higher education is isolated from life, spoon-fed methods of education continue and the work of the college community is divided into two worlds—that of the professor and that of the student—there can be little hope of developing that toughness of intellectual fiber demanded of those who should be leading in the social reconstruction of the next generation. Equally true is it that intellectual independence lacking in an orientation to the contemporary social tasks is a crime of first magnitude against the society which the university serves.

The development through the institutions of higher education of these qualities calls for assumptions, the chief of which is that when a social order is as wrong as ours one of the major tasks of higher education is *to acknowledge and proclaim that fact* and train the builders of a better social order. This means that the university must be a place of ferment for ideas that are disturbing and redemptive. Here the utmost of academic freedom is necessary and society for its own sake should fight to protect it. Why should we have institutions of higher learning *if they only are free to tell us what we think we already know about life and social organization?* The real question confronting America and the world is not: Will we have revolution, or can we proceed by evolutionary processes?—for we are already in the midst of world-wide social revolution. Our question is rather this: Will this revolution, which may last a generation or more, be guided by collective intelligence or by the primitive forces of human nature? *This is the real race between education and catastrophe.* Here we see that there is something more to do with truth than discover it. Truth must possess man and make him forever restless until he does something with it and about it. Moreover, the channel for securing more truth is frequently that of use and experiment. There is no current confusion in higher education more serious in its consequences than that which centers around the idea of disinterestedness, having as one of its implications that you cannot have convictions and also be open-minded to truth that runs counter to those convictions.

In mathematics and physical science there may be the possibility of seeking the truth with no concern as to what is done with it, but when we are trying to guide the revolution from a dying social order to something better than the possibility of individuals or institutions like the church and education being disinterested is ludicrous.

The *proper* fear of being regarded as propagandistic makes many an institution in fact a defender of the status quo. I cannot too strongly state that for me the development of social concern does not mean tying the university down to the "isms" of any political party or class. Rather, it means doing the work of education on the assumptions of the *imperative necessity for change* and the serious *responsibility* of the university in the providing of leadership for such change. It strikes at the theory—popular in educational circles in recent years—that the main business of education is the adjustment of students to their environment. I ask you to what social environment will you adjust your students—that of a social order mortally sick—that was what the generation preceding mine did and that was why great and good men could be ignorant of the root difficulties of their day and say with deepest sincerity and conviction the kinds of things that were said to my class in 1909. No, not adjustment to any visible order but transformation of the old order into something better must be the order for education! The universities can no longer be quiet monasteries, as in former days, but they must be centers of disturbing ideas and experiences if they are not to betray society and future generations.

The second urgent task for higher education in America is the development and practice of a new conception of democracy. The last word has not been said for democracy. The spread of fascism throughout the world, which Reinhold Niebuhr describes as "the last delirium of a dying capitalistic society," gives plausibility to the idea that democracy has "gone under" for good.

It is the task of the present generation to think through the inner meaning of democracy. Last summer I lived with two hundred Czechoslovakian students and professors for a week, and they were struggling with this problem because it was for them a life and death matter, circled about as they were by menacing dictatorships. Working on President Masaryck's assumption that, with a society awake to the seriousness of its situation, *spiritual forces were in the last analysis more determinative than economic*, they were developing a conception of democracy that preserved that priceless treasure of individual freedom but integrated it with the obligation to the corporate group, involving the acceptance of discipline and sacrifices that characterize the fascist movements. Here again it is not the business of the university to tie itself down to a political party theory of democracy but rather to search for the means of the

preservation of those personal and social values which are realized through democracy at its best. Democracy cannot survive on the laissez faire basis of the past, supporting special privilege and making our present class warfare inevitable. But if not democracy, *what?*

Third: higher education must be done with all approvals and connections with the business of war. The crisis of the world is so great, the danger of war is so imminent—and war now so certainly means the destruction of civilization—that it is time for the university to *cry havoc*. Here again the university must break with assumptions of the ruling forces in society and stand alongside the longings of our common humanity. War can stop within a generation if the universities and the churches stop blessing it. Thank God for the present awakening in the Christian and Jewish churches. The hour has struck when the forces of the mind and spirit throughout the world must put their corporate power against every racial, national fear and private interest that stands in the way of organizing international life on a basis of peace. Here America must lead. There is no time to be lost. The task of *demilitarizing the mind of the world* is one of generations, but *the first decisive steps can and must be taken now*. To be timid and temporize in the face of this gigantic corporate evil is treason against the millions of the world's best youth who gave their lives to end war. Let us call war by its right name, collective insanity and murder; let us understand, name and oppose the forces that make its continuance possible, but in the name of an education that is seeking to build a more brotherly social order let us make it known that we will not prostitute the high office that we hold as educators by accepting the assumption of ruling forces *that what has been must always be*. We need bold words and bolder acts if our efforts are to match the times. We must learn how to picture war as Studdert Kennedy has done, as:

“Waste of muscle, waste of brain,
Waste of patience, waste of pain,
Waste of manhood, waste of health,
Waste of beauty, waste of wealth,
Waste of blood, and waste of tears,
Waste of youth's most precious years;
Waste of ways the saints have trod,
Waste of glory, waste of God—
War!”

But more important than affirmations about war will be the acts which give meaning to our declarations involving the formulation of the ways of implementing our determinations in a world where the nationalistic racial and class fears and hatreds are running

rampant. Pacifism is not enough. If it is a seriously considered declaration of the life philosophy it has an important contribution to make. I spent a week last summer with one hundred and fifty British college students who discussed for two days this problem and in the end voted that on religious grounds they could have no part in any future war or in the preparation for it. I have known the French students who this past year have stirred thinking people of France by their accepting military prison in preference to military service. All these declarations and acts are splendid. I am personally in complete agreement with them, but they must not be regarded as a substitute for the determined intellectual search for ways of guiding the collective thinking, emotions and interests of mankind so that they will provide and support instruments for peaceful settlement of difficulties.

The university must help redefine patriotism. It must be the center from which men go trained to rewrite our history in terms of great social movements and leaders and not in terms of dates and battles merely. It must refuse to prostitute education by turning the colleges into military training camps. Great days of memory like Memorial Day, Armistice Day, must be recovered as *days when we look to the future* more than the past and build international understanding and so help to make sure that these "dead shall not have died in vain." It is the task of education to develop the knowledge of and confidence in the instrumentalities of peace and especially in devising programs of peace. How soon will the day come when we have a department of peace which will rank in importance with present departments of Army and Navy, have a budget as large and which will promote programs of international cultural relations? Perhaps when we have in our national cabinet a Secretary of Education, he will be our Secretary of Education and Peace. If one great nation—let us say America—used its money and collective intelligence in making as comprehensive and costly preparations for peace as we are making for war, *war* as an instrument for the settlement of international difficulties would disappear in a generation.

My fourth urgent task is that we must draw more closely together the forces of education and religion. I am speaking here of religion only in the most fundamental and socially significant sense. Religion has been too much a matter of sects, their churches and synagogues and education a concern of schools and colleges. In America these have been too much divorced from one another because of the proper fear that education might be overwhelmed by the sectarian religious spirit. I am pleading for a basic integration of the qualities of religion into our education and not for any particular philosophy or program of religion.

Psychologists and religionists may debate about whether or not

man is incurably religious, but the sociological facts of our present day have something to say on that. You see only part of the meaning of national socialism in Germany, Fascism in Italy and Communism in Russia, particularly in their appeal to youth, if you look at them simply as programs for social reconstruction. When thousands of communist youth march around Lenin's tomb and sing, "We are changing the world," they are not merely affirming their belief in economic determinism; they are *proclaiming their own need for something to worship*, an object of cosmic significance to which they can give their life-devotion and for which they are ready to die, if need be. The real competitors to the historic religious faiths of our people are not *other* traditional religions—they are theories of social reconstruction which have taken on the character of Absolutes. They have become faiths for millions of people who felt they had been thrown on the scrap heap by society and who were blindly groping for something which would give meaning and significance to life. These theories, however pitifully inadequate, became their objects of worship. Remember men can be hungry—they can suffer great pain; they can even see their loved ones suffer and still fight on, but when they feel abandoned by society then their sense of personal significance goes, and there steals in the inescapable conviction that life is not worth living. In our world today the mass of people are not communist, fascist or national socialist because *reason* tells them that theirs is the best of all possible theories for social reorganization. They are just "human beings in great difficulty"—and they are giving themselves with an abandon to these causes because they have been led to believe *they are needed* if the cause is to succeed. By one of human nature's many strange paradoxes the passionate movements of our day all magnify the collectivity and the disciplines of any sacrifices it demands, yet not one of these movements could have had its hour in history but for the fact that it *seems to give more significance to the individual* than any other available alternative. In the early years of the nineteenth century, democracy was such a religious faith for millions of youth, and we confront no task that is quite so urgent as to restore its lost radiance because spiritually conceived democracy in the long run has in it more freedom for the growth of a social order based on justice and more equal distribution of wealth than any other political theory.

To make an Absolute out of either a political or social theory is to wickedly waste the splendid idealism of a generation, stultifying both the experiences of true religion and vital education. But in the spiritual, as in other realms, nature abhors a vacuum, and where the higher forces of the mind and spirit of a generation fail to make their vision of the good life effective in the corporate social organization of their day, the primitive forces enter and create

gods like themselves. We must accept this indictment and with new and more effective union of religion and education confront the social tasks of our generation.

Gentlemen of the Class of 1934, *now* I give you *two* worlds. The nature of the one is so clear that he who runs may read. It is a dying social order. The political doctors of our day may arrest somewhat the spread of the disease, but whether it endures for a decade or a generation or a century is secondary to *realistically seeing that its old age will be short* as civilization counts time. We must confess with shame that its continued existence is an indictment of the intellectual, ethical, and religious sterility of these latter days. Be realistic, but do not become too much obsessed with the ruin of this present moment for if you see only this it will make you too cynical to be a builder of the new order.

The other world, the new world, is to be seen only by the eye of faith. Make it your life work to do your humble part to make that invisible world become visible and redemptive in the experience of humanity. No one will be able to say exactly when the new order begins—perhaps it has already begun. These things “come not by observation.” The old cannot wholly disappear until the new appears; so through your lifetime the old and the new will exist along side of each other. That is the way of human organizations—there is never a clear break so that we can date the new exactly or say lo! here, or lo! there. There will, however, be *decisive moments when the form and direction of the new takes shape* and you must now prepare to take your part in giving intelligent and passionate leadership in those moments.

You have come into your leadership at a great hour. I cannot promise you the rewards of thrift and accumulation, although some of you even in this confused world may find them. I cannot promise you security or even independence—the man or woman who lives seriously in the days ahead cannot “be his own.” But I can call you to a great vocation—*changers of a World Order*. There will be forced marches, companionship with the best youth and the disinherited of all lands, perhaps poverty, life full of excitement and meaning, surely great adventure—the glory of blazing trails—“up, the shale whose few will follow” high on humanity’s hill of dreams. Those of us who are in middle life hope for some years to go along with you on that trail. I know the problems about jobs, economic base and all that, and I believe that acting in the spirit of President Atwood’s words to you yesterday you will find a solution, but in spite of the insecurity I do not pity you. Yours is the *advantage* of starting life realistic about your world and the *glory* of furthering the creative processes of history in shaping the character of the new day. *Fix your eyes on that new order!* The stars in their courses fight with you. You are living in days of

incomparably greater significance than those of the French Revolution (Carlyle said of those days, "to be alive was great, to be young was heaven") for no eye yet sees clearly the nature of the new world society and even the slogans are yet to be found.

In spite of the extreme nationalism of the moment, the real battle for a just social order will be fought on a *world basis and in a world arena*. Into that arena I challenge you to enter carrying the priceless treasures which Clark has shared with you and demonstrating again to the world that as new frontiers in life appear there awakens in us Americans again the *love of the trail*, the pioneer spirit typified by the covered wagon for which we revere our forefathers. Here is that real moral equivalent for war which William James urged us to find.

May I remind you again of the imperative necessity of cultivating those inner reserves that come from friendships, books, art, music, nature, little children? There was much insight into present life necessities in the motto of the Czechoslovakian Student Conference last summer, "The labyrinth of the world and the paradise of the heart." The intense individual and collective emotional strain of our contemporary life is so universal and everpresent that only those spirits have the hardihood to undertake its tasks whose lives are illuminated by that love of truth and goodness and beauty that gives one a sense of kindling comradeship with a Power not ourselves that worketh for righteousness. You are going to need more than any recent generation that faith in the ultimate conquest of right that enables you to fight for it, accept defeats in its name, rise and fight again, keep from the blight of cynicism, perhaps even come to the end of your day and seeing the merest fragment of your dreams realized and close the book with only one regret, namely, that you have had only one life to give to the Cause.

I give you the trail. The orders are Forward with Thankfulness and Courage.

Fiat Lux.

Clark University Bulletin

Catalogue Number



Worcester, Massachusetts

January, 1935

Clark University Bulletin

NUMBER 116

JANUARY, 1935

CATALOGUE NUMBER

The Catalogue is a record for the current academic year, 1934-35. Such announcements for the year 1935-36 as can be made at the time of publication are included.

The Bulletin is published in January, February, March, April, May, June, October, November, and December

Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917 authorized January 24, 1921.

HISTORICAL NOTE

Clark University owes its existence to the interest in higher education of Jonas Gilman Clark, who was born at Hubbardston, Worcester County, Massachusetts, February 1, 1815. Conscious of the meagerness of his own early educational opportunities, he devoted his later years to the establishment and nurture of the institution which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester. Mr. Clark died at Worcester on May 23, 1900.

The charter of the University was granted by the General Court of Massachusetts in 1887. The Graduate Division, with Granville Stanley Hall as president, received its first students in 1889. Special provision was made in Mr. Clark's will for the establishment of an Undergraduate Division with its own president but under the same general control as the Graduate Division. Carroll Davidson Wright was chosen president of the Undergraduate Division and students were first received in October, 1902. After the death of President Wright in 1909, Edmund Clark Sanford, then Professor of Psychology in the Graduate Division, was chosen as President of the college.

In June, 1920, Presidents Hall and Sanford resigned and Wallace Walter Atwood was elected to the presidency of both the Graduate and the Undergraduate Divisions of the University.

During the academic year 1920-21 the two faculties continued their separate organizations while plans for unification were being worked out. These plans, approved by the Board of Trustees, went into effect in 1921-22 and provided for the fusion of the two faculties into a single body.

With the election of President Atwood, provision was made for the establishment of a Graduate School of Geography, and work in that school was begun in the fall of 1921.

A Summer School with a six weeks' session has been conducted each year, beginning in 1921.

TABLE OF CONTENTS

HISTORICAL NOTE	2
CALENDAR	5
BOARD OF TRUSTEES, ADMINISTRATIVE OFFICERS	7
UNIVERSITY STAFF	8
GOVERNING BOARDS AND COMMITTEES	13
THE UNIVERSITY	18
Location, Grounds and Buildings	18
Organization	18
The Academic Year	19
Admission	19
Registration	20
Tuition and Fees	20
Dining Hall and Dormitory	22
Other Expenses	23
Fellowships, Scholarships and Loans	23
Health and Physical Training	23
THE LIBRARY	24
Art Department	25
THE UNDERGRADUATE DIVISION—"CLARK COLLEGE"	26
The College	26
Scholarships and Student Aid	26
Admission	28
Faculty Advisers	32
Registration	32
Student Programs	33
Requirements for the Degree of Bachelor of Arts	34
Grading and Scholarship	36
Classification of Students	37
Honors	38
Eligibility	39
Student Life	40
THE GRADUATE DIVISION	42
General Information	42
Admission	43
Scholarships and Fellowships	44
Rules and Regulations	46
THE GRADUATE SCHOOL OF GEOGRAPHY	51
Staff	51
General Statement	51
Courses in Geography	54
Home Study Courses in Geography	57
THE SUMMER SCHOOL	59
Officers of Instruction and Administration	59
Field Trips During the Summer School	60
List of Courses	60

THE DEGREE OF BACHELOR OF EDUCATION	62
Special Courses for Teachers	64
DEPARTMENTAL ANNOUNCEMENTS	66
Ancient Languages	66
Biology	68
Chemistry	73
Economics and Sociology	76
COURSES IN EDUCATION	81
DEPARTMENTAL ANNOUNCEMENTS (continued)	
English	84
Geography	87
Geology	87
German	87
History and International Relations	90
Physics and Mathematics	96
Psychology	100
Romance Languages	105
DEGREES CONFERRED IN 1934	108
REGISTER OF STUDENTS	110
Summary	118
INDEX	119

CALENDAR

The academic year begins on the Tuesday before the fourth Thursday in September. Commencement Day is the thirty-seventh Monday following (the first or second Monday in June).

The first semester ends on the Saturday before the nineteenth Monday and the second semester begins on the nineteenth Monday of the academic year.

1934

Sept. 25	Tuesday	Beginning of academic year.
Nov. 29	Thursday	Thanksgiving Day. A holiday.
Dec. 19	Wednesday	Beginning of Christmas recess at 6 P. M.

1935

Jan. 3	Thursday	End of Christmas recess at 8 A. M.
Jan. 14-19		Registration days for second semester.
Jan. 21	Monday	Beginning of semester examination period.
Feb. 1	Friday	Founder's Day. Not a holiday.
Feb. 2	Saturday	End of first semester.
		Last day for receiving applications for undergraduate scholarships for the second semester.
Feb. 4	Monday	Beginning of second semester.
Feb. 9	Saturday	Last day for changes in undergraduate programs.
		Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June, 1935.
Feb. 14	Thursday	Last day for payment of term bills.
Feb. 22	Friday	Washington's Birthday. A holiday.
Feb. 28	Thursday	Last day for receiving applications for graduate scholarships and fellowships for 1935-36.
Mar. 30	Saturday	Beginning of spring recess at 1 P. M. Mid-semester reports.
Apr. 8	Monday	End of spring recess at 8 A. M.
May 27	Monday	Beginning of semester examination period.
May 30	Thursday	Memorial Day. A holiday.
June 6	Thursday	Last day of semester examinations.
June 7	Friday	Dissertations and theses for the Ph.D. and M.A. degrees are due at the office of the Recorder at 9 A. M.
June 10	Monday	Commencement Day.
July 1	Monday	Summer School opens. Registration day.
July 6	Saturday	Last day for payment of Summer School tuition.
Aug. 8	Thursday	Final Assembly of the Summer School at 8 P. M.
		Conferring of degrees.
Aug. 9	Friday	Summer School closes.
Sept. 24	Tuesday	Beginning of academic year. Registration day.
Oct. 1	Tuesday	Last day for changes in undergraduate programs.

Oct. 4	Friday	Last day for payment of term bills.
Oct. 12	Saturday	Columbus Day. Not a holiday.
Oct. 31	Thursday	Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June, 1936.
Nov. 11	Monday	Armistice Day. Not a holiday.
Nov. 23	Saturday	Mid-semester reports.
Nov. 28	Thursday	Thanksgiving Day. A holiday.
Dec. 18	Wednesday	Beginning of Christmas recess at 6 P. M.

1936

Jan. 2	Thursday	End of Christmas recess at 8 A. M.
Jan. 13-18		Registration days for second semester.
Jan. 20	Monday	Beginning of semester examination period.
Feb. 1	Saturday	Founder's Day. Not a holiday.
Feb. 1	Saturday	End of first semester.
		Last day for receiving applications for undergraduate scholarships for the second semester.
Feb. 3	Monday	Beginning of second semester.
Feb. 8	Saturday	Last day for changes in undergraduate programs.
		Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June, 1936.
Feb. 13	Thursday	Last day for payment of term bills.
Feb. 22	Saturday	Washington's Birthday. A holiday.
Feb. 29	Saturday	Last day for receiving applications for graduate scholarships and fellowships for 1936-37.
		Mid-semester reports.
Mar. 28	Saturday	Beginning of spring recess at 1 P. M.
Apr. 4	Saturday	End of spring recess at 8 A. M.
Apr. 13	Monday	Beginning of semester examination period.
May 25	Monday	Memorial Day. A holiday.
May 30	Saturday	Memorial Day. A holiday.
June 4	Thursday	Last day of semester examinations.
June 5	Friday	Dissertations and theses for the Ph.D. and M.A. degrees. are due at the office of the Recorder at 9 A. M.
June 8	Monday	Commencement Day.

BOARD OF TRUSTEES

HERBERT PARKER (1907) Vice President	South Lancaster, Mass.
ARTHUR P. RUGG (1910)	Worcester, Mass.
CHARLES H. THURBER (1913), President	Boston, Mass.
GEORGE H. MIRICK (1920), Treasurer	Worcester, Mass.
FREDERIC B. WASHBURN (1925)	Worcester, Mass.
ALEXANDER H. BULLOCK (1926)	Worcester, Mass.
LEON E. FELTON (1930) Secretary	Worcester, Mass.
FRANCIS H. DEWEY, JR. (1934)	Worcester, Mass.

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

ADMINISTRATIVE OFFICERS

President of the University and Director of the Graduate School of Geography	W. W. ATWOOD, SR.
Acting Librarian	EDITH M. BAKER
Dean of the College	H. P. LITTLE
Director of the Summer School	R. S. ILLINGWORTH
Director of Extension Courses	P. H. CHURCHMAN
Director of the Home Study Department	D. C. RIDGLEY
Recorder	LYDIA P. COLBY
Bursar	FLORENCE CHANDLER

UNIVERSITY STAFF

THE UNIVERSITY FACULTY

(Listed in order of academic seniority within each rank.)

WALLACE WALTER ATWOOD, PH.D.	160 Woodland St.
President, Professor of Physical and Regional Geography, and Director of the Graduate School of Geography.	
LOUIS N. WILSON, LITT.D.	11 Shirley St.
Librarian 1889-1929. Librarian Emeritus.	
HENRY TABER, PH.D.	2 Pleasant Place
Professor of Mathematics, 1903-21. Professor Emeritus.	
WILLIAM HENRY BURNHAM, PH.D.	Bancroft Hotel
Professor of Education and School Hygiene, 1906-26. Professor Emeritus.	
BENJAMIN SHORES MERIGOLD, PH.D.	17 Charlotte St.
Professor of Chemistry and Director of the Chemical Laboratories.	
GEORGE HUBBARD BLAKESLEE, PH.D., L.H.D.	21 Downing St.
Professor of History and International Relations.	
PHILIP HUDSON CHURCHMAN, PH.D.	20 Institute Rd.
Professor of Romance Languages and Director of Extension Courses.	
HAVEN DARLING BRACKETT, PH.D.	114 Woodland St.
Professor of Greek and Latin.	
LEROY ALLSTON AMES, A.M.	166 Woodland St.
Professor of English Literature.	
LORING HOLMES DODD, PH.D.	88 Sagamore Rd.
Professor of Rhetoric. Curator of Art.	
*ROBERT HUTCHINS GODDARD, PH.D.	1 Tallawanda Dr.
Professor of Physics and Director of the Physical Laboratories.	
HOMER PAYSON LITTLE, PH.D.	156 Woodland St.
Professor of Geology and Dean of the College.	
SAMUEL J. BRANDENBURG, PH.D.	173 Woodland St.
Professor of Economics and Sociology.	

*Absent on leave, 1934-35.

CARL MURCHISON, PH.D., Sc.D.	11 Downing St.
Professor of Psychology, Chairman of the Department of Psychology and Director of the Clark University Press.	
WILLIAM HOMER WARREN, PH.D.	166 Woodland St.
Professor of Organic Chemistry.	
WALTER SAMUEL HUNTER, PH.D.	171 Woodland St.
G. Stanley Hall Professor of Genetic Psychology.	
*DOUGLAS CLAY RIDGLEY, PH.D.	166 Woodland St.
Professor of Geography in Education and Director of the Home Study Department.	
CLARENCE FIELDEN JONES, PH.D.	193 Lovell St.
Professor of Economic Geography.	
WALTER ELMER EKBLAW, PH.D.	Wheeler Ave., N. Grafton, Mass.
Professor of Geography.	
HUDSON HOAGLAND, PH.D.	150 Woodland St.
Professor of Physiology and Director of the Biological Laboratories.	
CAREY EYSTER MELVILLE, A.B.	16 Isabella St.
Associate Professor of Mathematics.	
VERNON JONES, PH.D.	54 May St.
Associate Professor of Educational Psychology.	
JAMES ACKLEY MAXWELL, PH.D.	24 Loudon St.
Associate Professor of Economics.	
ARTHUR FLETCHER LUCAS, PH.D.	78 Downing St.
Associate Professor of Economics and Sociology.	
DWIGHT ERWIN LEE, PH.D.	37 Clifton St.
Associate Professor of Modern European History.	
PERCY MARTIN ROOPE, PH.D.	8 Virginia Rd.
Associate Professor of Physics.	
HENRY DONALDSON JORDAN, PH.D.	20 Loudon St.
Associate Professor of English History.	

*Absent on leave, 1934-'35

- ROBERT STANLEY ILLINGWORTH, A.M., ED.M. 209 Lovell St.
Associate Professor of English and Director of the Summer School.
- SAMUEL VAN VALKENBURG, PH.D. 10 South Flag St.
Associate Professor of Climatology and Regional Geography.
- JESSE LUNT BULLOCK, PH.D. 35 Downing St.
Associate Professor of Chemistry.
- HEINRICH MORANT BOSSHARD, PH.D. 22 Baker St.
Associate Professor of German.
- DAVID POTTER, PH.D. 974 Main St.
Associate Professor of Biology.
- DAVID MITCHELL DOUGHERTY, PH.D. 6 Downing St.
Assistant Professor of Romance Languages.
- CLARENCE HENRY GRAHAM, PH.D. 166 Woodland St.
Assistant Professor of Psychology.
- WALLACE WALTER ATWOOD, JR., PH.D. 88 Morningside Rd.
Assistant Professor of Physiography and Regional Geography.
- RAY ALLEN BILLINGTON, PH.D. 1 Woodbine St.
Assistant Professor of History.
- HAROLD S. JANTZ 24 Beaver St.
Assistant Professor of German.
- WILLOUGHBY M. CADY 11 Elmwood St.
Assistant Professor of Physics.
- LOUIS BALSAM 166 Woodland St.
Assistant Professor of Sociology.
Also, beginning September, 1935.
- C. LADD PROSSER 53 Maywood St.
Assistant Professor of Physiology
- CHARLES M. POMERAT, ~~AB.~~ A.M. 914 Main St.
Instructor in Biology.
- CHARLES J. OLSON, JR. 144 Woodland St.
Instructor in English. Proctor, Estabrook Hall.

OTHER MEMBERS OF THE STAFF

CURTIS F. MARBUT, LL.D. Special Lecturer in Geography.	
RAYMOND ROYCE WILLOUGHBY, PH.D. Research Associate in Psychology.	32 Wayne St.
GUY H. BURNHAM, A.M. Cartographer, Graduate School of Geography.	19 Woodman Rd.
ERNEST RAYMOND WHITMAN Director of Physical Education.	48 Downing St.
RALPH WARNER ELLIS, M.D. Medical Director.	574 Main St.
FLORENCE CHANDLER Bursar.	18 Downing St.
LYDIA P. COLBY Recorder.	276 Highland St.
DEAN WINSLOW HANSCOM, A.B. Director of the Musical Clubs.	Waban, Mass.
JOHN W. BOARDMAN Superintendent of Buildings and Grounds.	15 Shirley St.

STUDENT ASSISTANTS

Biology

MORTON A. RUBIN, A.B.

Chemistry

MILAN A. CHAPIN, A.M.	FREDERICK E. PETKE, B.S.
AXEL V. HOLMGREN, A.M.	KARL C. WHITEHOUSE, A.M.

Economics and Sociology

RANDLE E. DAHL, A.M.	WALTER C. WILSON, A.M.
----------------------	------------------------

Geology

ROGER G. GIFFORD

History and International Relations

WALTER G. INMAN, A.M.

GEORGE E. McREYNOLDS, A.M.

Physics

HYMAN S. DENMARK, B.S.

Psychology

ROBERT J. BEITEL, A.M.

ROBERT H. BROWN, A.M.

SIDNEY H. NEWMAN, A.M.

LORRIN H. RIGGS, A.M.

J. ROY SMITH, A.M.

GOVERNING BOARDS AND COMMITTEES

THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general educational work of the University and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Benjamin S. Merigold.

THE UNIVERSITY SENATE

An advisory board appointed by the President

President Wallace W. Atwood, *ex officio*

George H. Blakeslee

Clarence F. Jones

Samuel J. Brandenburg

Walter S. Hunter

Philip H. Churchman

Homer P. Little

Loring H. Dodd

William H. Warren

Hudson Hoagland

THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division of the University and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Wallace W. Atwood, *ex officio*

George H. Blakeslee

Clarence F. Jones

Samuel J. Brandenburg

Dwight E. Lee

W. Elmer Ekblaw

James A. Maxwell

Robert H. Goddard

Benjamin S. Merigold

Clarence H. Graham

Carl Murchison

Hudson Hoagland

William H. Warren

Walter S. Hunter

H. Donaldson Jordan, *Secretary*

THE COLLEGE BOARD

The College Board consists of the President, the Dean of the College, and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division, subject to the control of the Faculty, and recommends to the Faculty candidates for the degree of Bachelor of Arts.

President Wallace W. Atwood	} <i>ex officio</i>
College Dean Homer P. Little	
Ray H. Billington	David Potter
Jesse L. Bullock	Percy M. Roope
David M. Dougherty	
Carey E. Melville, <i>Secretary</i>	

THE COMMITTEE ON EXTENSION COURSES AND SPECIAL STUDENTS

The Committee exercises general supervision over "courses of college grade for adults" and over special students including candidates for the degree of Bachelor of Education, and recommends to the Faculty candidates for this degree.

President Wallace W. Atwood, <i>ex officio</i>	
Philip H. Churchman, <i>Chairman</i>	
Samuel J. Brandenburg	Homer P. Little
Vernon Jones	H. M. Bosshard
Carey E. Melville, <i>Secretary</i>	

THE COMMITTEE ON THE SUMMER SCHOOL

President Wallace W. Atwood, <i>ex officio</i>	
Director of the Summer School, Robert S. Illingworth	
George H. Blakeslee	S. Van Valkenburg
Samuel J. Brandenburg	

THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected annually to advise the President regarding the personnel and the organization of departments.

George H. Blakeslee	Homer P. Little
Samuel J. Brandenburg	Carey E. Melville
Hudson Hoagland	

THE COMMITTEE ON COURSES IN EDUCATION

A standing committee of the Faculty on which is placed the responsibility of providing, in coöperation with the several departments,

courses in Education in sufficient number and variety to enable graduates of the College to meet the current requirements of the near-by states for positions in the public school systems.

President Wallace W. Atwood, *ex officio*

Vernon Jones, *Chairman*

Philip H. Churchman

Robert S. Illingworth

Douglas C. Ridgley

THE COMMITTEE ON CURRICULUM

President Wallace W. Atwood } *ex officio*
Dean Homer P. Little }

Philip H. Churchman, *Chairman*

Leroy A. Ames

Vernon Jones

Loring H. Dodd

Dwight E. Lee

Samuel J. Brandenburg

STANDING COMMITTEES OF THE GRADUATE BOARD

THE COMMITTEE ON CREDENTIALS

The committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to fellowships and scholarships and candidacy for graduate degrees.

President Wallace W. Atwood, *ex officio*

Clarence F. Jones, *Chairman-Secretary*

George H. Blakeslee

Carl Murchison

Samuel J. Brandenburg

William H. Warren

THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

President Wallace W. Atwood, *ex officio*

Philip H. Churchman, Professor of Romance Languages

Heinrich M. Bosshard, Associate Professor of German

A representative of the student's major department.

STANDING COMMITTEES OF THE COLLEGE BOARD

EXECUTIVE COMMITTEE

President Wallace W. Atwood	} <i>ex officio</i>
Dean Homer P. Little	
Carey E. Melville, <i>Secretary</i>	David Potter

THE COMMITTEE ON ADMISSIONS

President Wallace W. Atwood	} <i>ex officio</i>
Dean Homer P. Little, <i>Chairman</i>	
Samuel J. Brandenburg	Carey E. Melville
Robert S. Illingworth	Benjamin S. Merigold

COMMITTEE ON DEPARTMENTAL HONORS

President Wallace W. Atwood	} <i>ex officio</i>
Dean Homer P. Little	
Vernon Jones, <i>Chairman</i>	
Leroy H. Ames	H. Donaldson Jordan
Samuel J. Brandenburg	David Potter
David M. Dougherty	

THE COMMITTEE ON ATHLETICS

President Wallace W. Atwood	} <i>ex officio</i>
Dean Homer P. Little, <i>Chairman</i>	
James A. Maxwell	Ernest R. Whitman
David Potter	Wallace W. Atwood, Jr.

THE COMMITTEE ON AUTHORIZED EXCURSIONS

President Wallace W. Atwood	} <i>ex officio</i>
Dean Homer P. Little	
Carey E. Melville	

COMMITTEE ON STUDENT FINANCES

President Wallace W. Atwood	} <i>ex officio</i>
Dean Homer P. Little	
Guy H. Burnham, <i>Chairman</i>	
James A. Maxwell	Ernest R. Whitman

COMMITTEE ON SOCIAL AFFAIRS

President Wallace W. Atwood }
Dean Homer P. Little } *ex officio*

Jesse L. Bullock, *Chairman*

H. Donaldson Jordan

William H. Warren

COMMITTEE ON FRATERNITIES

President Wallace W. Atwood }
Dean Homer P. Little } *ex officio*

Dwight E. Lee, *Chairman*

W. Elmer Ekblaw

Arthur F. Lucas

COMMITTEE ON PUBLICATIONS

President Wallace W. Atwood }
Dean Homer P. Little } *ex officio*

Leroy A. Ames, *Chairman*

Heinrich M. Bosshard

Percy M. Roope

THE UNIVERSITY

THE LOCATION

Clark University is located in Worcester, Massachusetts, an industrial and educational center with a population of about two hundred thousand. It is distant about forty miles from Boston and from Providence, and about two hundred miles from New York City.

GROUNDS AND BUILDINGS

The university campus is a tract of about eight acres bounded by Main, Woodland, Maywood, and Downing Streets, about a mile and a quarter from the City Hall. Here the principal buildings are located. Besides this tract, the institution owns the athletic grounds between Maywood and Beaver Streets, where the tennis courts are located, the athletic field of about six acres at the corner of Park Avenue and Beaver Street, about five minutes' walk from the University, the land on the corner of Woodland and Charlotte Streets, where Estabrook Hall is located, the adjacent Fanning estate and other property opposite the campus on Woodland Street, the Hadwen Arboretum on Lovell Street, and several dwellings occupied by members of the staff. The residences of the President and of the Dean of the College are on Woodland Street, opposite the campus.

ORGANIZATION

The UNIVERSITY includes :

THE UNDERGRADUATE DIVISION offering a general college course leading to the degree of Bachelor of Arts.

THE GRADUATE DIVISION offering advanced instruction leading to the degrees of Master of Arts and of Doctor of Philosophy.

THE GRADUATE SCHOOL OF GEOGRAPHY offering special training leading to higher degrees in geography.

THE SUMMER SCHOOL offering both undergraduate and graduate instruction with special reference to candidates for the degrees of Bachelor of Education and Master of Arts.

THE EXTENSION DIVISION offering courses at the University in the late afternoon and on Saturday, with special reference to the needs of candidates for the degree of Bachelor of Education.

THE LIBRARY with its separate endowment, offering unusual opportunities for study and research.

THE CLARK UNIVERSITY PRESS is associated with the University under the direction of a Board of Governors appointed by the Trustees of the University. It is not a service department of the University, but a self-supporting enterprise engaged in the publication of scientific books and journals.

THE DEPARTMENTS at present offering courses of study are:

1. Ancient Languages and Literatures
2. Biology
3. Chemistry
4. Economics and Sociology
5. English Language and Literature
6. Geography
7. Geology
8. German Language and Literature
9. History and International Relations
10. Physics and Mathematics
11. Psychology and Education
12. Romance Languages and Literatures

THE ACADEMIC YEAR

The academic year begins on the Tuesday before the fourth Thursday in September, and Commencement Day is the thirty-seventh Monday following (first or second Monday in June). The first semester ends on the Saturday before the nineteenth Monday, and the second semester begins on the nineteenth Monday of the academic year. There are two recesses during the college year: two weeks including Christmas and New Year's Day; and the first full week in April. University exercises are suspended also on Thanksgiving Day, Washington's Birthday, and Memorial Day.

The Summer School begins on a Monday near the first of July and continues in session for six weeks.

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

ADMISSION

Three classes of students are admitted:

1. Undergraduates. For requirements see announcement of the Undergraduate Division.
2. Graduate students. For requirements see announcement of the Graduate Division.

3. Special students. (a) Mature persons, not candidates for a degree, who wish to take advantage of the opportunities for study afforded by the University, and who give satisfactory evidence of adequate preparation for the work which they wish to undertake. (b) Students who are candidates for the degree of Bachelor of Education. For requirements see announcement of the Bachelor of Education degree.

Requests for information and for application forms should be addressed to the OFFICE OF THE UNIVERSITY, 950 MAIN STREET, WORCESTER, MASSACHUSETTS.

REGISTRATION

The first day of the academic year and of the summer session is devoted to the registration of programs of study. Registration for the second semester is required not later than the eleventh day (Wednesday) before the beginning of the semester.

Failure to register at the time designated is penalized, in the case of undergraduates, by a charge of one dollar for each day's delay up to a maximum of five dollars.

TUITION AND FEES

TUITION

Tuition, undergraduate and graduate, is \$200 per year. In addition to the tuition the University collects from each undergraduate five dollars each semester for the support of "student activities." Students enrolled in fewer than four courses are charged at the rate of \$30 per course for a semester. A proportionate charge is made for fractional courses. Tuition is payable in two equal installments, due at the beginning of each semester. If the tuition is not paid within ten days after it is due the enrollment of the student lapses. A student whose enrollment has lapsed for non-payment of tuition may be re-enrolled, with permission of the proper administrative officer on payment of the overdue tuition with an additional fee of \$2.

Tuition in the Summer School is \$20 for a single course, \$35 for two or three courses, and \$45 for four courses. Tuition may be paid at any time before the opening of the Summer School, and must be paid by noon of the first Saturday of the term.

Tuition in special courses for teachers (courses of college grade for adults) is \$8.00 for a course meeting one hour per week for one semester and \$15 for a course meeting two hours a week for one semester.

The following regulation was adopted by the Trustees at a meeting held March 28, 1931.

"No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun."

MATRICULATION FEE

A matriculation fee of \$5.00 is required of all students formally enrolled in Clark University. This fee is paid but once, and permits a student to return successive years, or after a period of absence, without further charge for matriculation.

Students who register for the Summer School pay the matriculation fee.

Students enrolled in home study courses and "auditors" are not required to matriculate.

Official statements of record are issued by the Recorder of the University for matriculated students only.

LABORATORY FEES AND DEPOSITS

Laboratory fees are charged at the rate of \$5.00 each semester for undergraduate laboratory courses.

A deposit of \$10 for each course, to cover breakage, is required of students taking undergraduate laboratory work in chemistry. The department notifies the Bursar at the end of the year of the total charges against the student for breakage, and any balance remaining is returned. If the deposit is not sufficient to cover the breakage charges, any excess is collected by the Bursar.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

A deposit of \$25 is required of each graduate student in the Department of Chemistry, at the beginning of the year. Ordinary supplies and materials are charged to the student's account at cost. Any balance remaining is refunded at the end of the year.

Laboratory fees and deposits for breakage are due at the time of registration for the courses.

PUBLICATION FEES

Publication fees, \$10 for the Master of Arts thesis and \$15 for the Doctor of Philosophy dissertation, are due when applications for admission to candidacy are filed.

DIPLOMA FEES

Diploma fees are charged according to the following schedule:

\$5.00, for the Bachelor of Arts or the Bachelor of Education diploma, due at the beginning of the second semester of the year in which the candidate expects to receive the degree.

\$10, for the Master of Arts diploma, due when application for admission to candidacy is filed.

\$25, for the Doctor of Philosophy diploma, due when application for admission to candidacy is filed.

DINING HALL AND DORMITORY

Board at the Dining Hall is furnished at a reasonable rate which has varied from year to year. During the current year the charge is \$7.50 per week, with *no refunds for absences except in cases of protracted illness.*

Undergraduates who do not live in their own homes are required to board at the Dining Hall.

Estabrook Hall, the undergraduate dormitory completed in 1924, provides accommodations for about fifty students. Two students in a suite of two rooms are charged \$150 each; two in one room, \$115 each except on the mezzanine floor where the two rooms available cost \$135 each. Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. Each student is required to deposit \$25 before occupying a room. This deposit is returned, less a charge for lights and any charges for damages to the room or its furnishings, when the key to the room is surrendered to the Bursar.

Freshmen not living in their own homes are required to room in Estabrook Hall.

Rooms are assigned to freshmen in order of application, when the application is accompanied by the deposit of \$25. Students who indicate a desire to room together will be accommodated whenever possible. Rooms not required for freshmen may be rented by upper classmen or by graduate students.

The University has dormitory accommodations in the "Faculty House" for a small number of graduate students.

OTHER EXPENSES

Students will find that the necessary expenses of living in Worcester are comparable with similar costs in any large city. The total is largely dependent upon the individual's habits and tastes.

Lodgings may be secured at a reasonable cost in private houses within convenient distance from the campus.

The cost of books varies with the programs of study. The University maintains a bookstore where textbooks and supplies may be procured.

FELLOWSHIPS, SCHOLARSHIPS AND LOANS

Fellowships, scholarships and loans or other grants for graduate students are available as stated in the announcement of the Graduate Division.

Undergraduate scholarships and loans or other grants are available as stated in the announcement of the Undergraduate Division.

HEALTH AND PHYSICAL TRAINING

The Medical Director, Doctor Ralph W. Ellis, exercises general supervision over matters of health and hygiene in the University. For undergraduates a thorough medical examination is required at the beginning and end of each year.

The Medical Director is available during the academic year for conferences and medical advice. It is intended that his services shall be primarily of a preventive nature. The University does not conduct an infirmary and does not undertake to care for cases of illness requiring medical attention or hospital accommodations, although it will co-operate in every possible way in meeting such emergencies.

The Director of Physical Education has supervision over all required physical training and other athletic activities. In the matter of intercollegiate contests he is assisted by the Committee on Athletics.

The gymnasium is located on the ground floor of Jonas G. Clark Hall. Individual steel lockers and an ample number of shower baths are provided.

THE LIBRARY

EDITH M. BAKER, *Acting Librarian*

HELEN J. ELLIOT, *Cataloguer*

Assistants

DOROTHY M. DICKINSON
MARION HENDERSON

EDITH L. SAWYER
MARJORIE WHITNEY

Student Assistants

R. G. GIFFORD

A. S. JOHNSON

The Library, under the terms of Mr. Clark's will, received one quarter of his estate for the "support and maintenance of a University Library." Thus the Library is well endowed and is able to provide amply for the needs of all departments. It contains over 149,000 bound volumes and pamphlets, and the readingroom receives about 500 journals.

Particular attention is paid to the needs of students engaged in research work. The Library already possesses a good collection of complete sets of the best scientific periodicals. It makes liberal purchases for individual needs and supplements these by drawing upon the resources of the older and larger libraries through the inter-library loan system. The number of books added each year is about 3,000 volumes.

The books in the Art Department are accessible on application to the Librarian, but, by the terms of the Founder's will, they *cannot* be taken from the building.

All regular privileges of the Library are open to all members of the University.

Tuesday and Friday mornings, each week, all books recently added to the Library are placed upon a table in the reference section, where they remain for three days. This affords the members of the University an opportunity to examine the new books in all departments before they are placed upon the shelves for circulation.

The Library is open from 8 a. m. to 10 p. m. each week day (except on legal holidays), during the regular sessions of the University. During the Summer School session the Library is open from 8 a. m. to 6 p. m.

ART DEPARTMENT

In his last will and testament the Founder of the University bequeathed

"the sum of \$100,000, as an endowment fund for the Art Department of said University, and said sum is to be held and kept sacred and intact as a principal not to be used or expended under any conditions; but the income, interest or proceeds thereof shall be used only in putting and keeping said works of art or others given or obtained for said department in good condition and in taking care of them; and then if there is a surplus of the income of said fund, I will and direct that it be used in the purchase of additional works of art or of such matters as will add to the usefulness and efficiency of said Art Department."

Under these conditions a large room has been furnished and equipped on the upper floor of the Library Building. Upon the death of Mrs. Clark, those works of art of the Founder's collection which were deemed most suitable for this purpose were arranged and displayed in this room, together with his most valuable books, which by the conditions of the will cannot be removed from the building. A complete catalogue of these books and paintings has been published in the Publication of the Library, Vol. 2, No. 1.

The most recent addition to the collection is a portrait of Louis N. Wilson, librarian of Clark University from 1889 to 1929, librarian emeritus, 1929-, by Leopold Seyffert of New York.

The Art Department is open daily (except Sundays and holidays) from 9 a. m. to 5 p. m.

THE UNDERGRADUATE DIVISION

"CLARK COLLEGE"

When the College was established in 1902, a three-year course was adopted as the normal one for the baccalaureate degree. This innovation was due to the emphasis placed upon a three-year course in the will of the Founder, based on a conviction that properly prepared students could secure in three years, under favorable conditions, a training essentially equivalent to that ordinarily obtained in a four-year college course. Increasing pressure, both for the admission of high school graduates who could not qualify for the three-year course and for a larger development of extra-curricular activities, led ultimately to the abandonment of the original plan. Beginning with the class which entered in September, 1922, a four-year course became the normal one leading to the degree of Bachelor of Arts. The opportunity to complete the course in three years is still open to well prepared and serious students as in other colleges. Only a small number avail themselves of this opportunity.

The College has a competent faculty and is well equipped for the work which it undertakes. A general program leading to the degree of Bachelor of Arts is offered. Distinctly vocational or professional programs are not offered.

A complete statement in regard to fees and expenses will be found under the heading TUITION AND FEES.

SCHOLARSHIPS AND STUDENT AID

THE JONAS G. CLARK SCHOLARSHIPS established by the Trustees in January, 1925, provide scholarships of the value of one hundred dollars each to fifty undergraduates.* Twenty of these scholarships are reserved for applicants for admission to the freshman class who rank in the upper quarter of their graduating classes in preparatory schools, eight of them being for graduates of the High Schools of Worcester. Of the remaining thirty scholarships, ten are reserved for each of the three upper classes, for students who rank in the upper quarter of each class.

These grants are for the encouragement of high grade scholarship. In conformity with this purpose they are subject to the following

*Thirty additional scholarships have been offered currently to entering freshmen as a contribution by the University toward the alleviation of the existing conditions of widespread unemployment and reduced incomes.

conditions: (1) one-half the value of the scholarship is deducted from the term bill of the holder at the beginning of each semester; (2) a scholarship is automatically forfeited for the second semester if the holder fails to maintain a rank in the upper half of his class during the first semester.

THE SANFORD MEMORIAL SCHOLARSHIP FUND, established by alumni of the University provides an annual scholarship, amounting at present to \$130, for a student in the college. Included in the fund is the class gift to the University of the class of 1918.

THE LIVERMORE AND AMBULANCE SCHOLARSHIP was endowed by citizens of Worcester in honor of Charles Randall Livermore, the first Clark man to fall in battle in the World War, and of his companions in the Clark Unit of Ambulance Drivers. Fifty dollars or more is offered annually, to be awarded on the basis of academic success, character and usefulness to the College. The scholarship is open to students who are residents of Worcester County.

THE HENRY A. WILLIS FUND provides scholarships for students from Fitchburg, Massachusetts, and vicinity. In the absence of suitable candidates from this community grants may be made to others.

THE B'NAI BRITH SCHOLARSHIP, provided by the Order of B'nai Brith, is primarily but not exclusively for the aid of Jewish students.

THE CLARK UNIVERSITY FACULTY WOMEN'S CLUB offers a \$100 scholarship to an applicant who ranks high in intellectual and personal qualities. The club is assisted by alumnae and wives of alumni. Application should be addressed to The Chairman, Scholarship Committee, Clark University Faculty Women's Club.

Applications for undergraduate scholarships should be filed at an early date on blanks which may be secured at the general office. Awards are made by the College Board.

The Board expressly reserves the right to award fewer than the full number of scholarships in any year if for any reason this may seem advisable.

Aid given in the form of scholarships is not regarded as a loan. It is recognized, however, that those who receive such aid may wish to return the amount in later years. *Any sums received from this source will be added to the ALUMNI LOAN FUND of the College.*

LOAN FUNDS

THE ALUMNI LOAN FUND is a permanent revolving fund established by the Trustees and the Alumni. To this has been added a fund of about \$500 contributed by L. Kelly Foster, C. B. L. Kelley, Isadore Lubin, H. M. Smith, and others.

THE ESTABROOK LOAN FUND was created by the generosity of the late Arthur F. Estabrook of the Board of Trustees.

Loans from these funds are made to undergraduates by the Dean of the College in coöperation with the Alumni Committee on Loans. Loans are covered by endorsed notes payable at a fixed date and bear interest at the rate of 6 per cent per year.

THE SARAH M. THURBER LOAN FUND was established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Such loans bear interest at the rate of 6 per cent per year.

Interest received from loans is in all cases added to the fund from which the loan was made.

ADMISSION

Inquiries regarding admission and requests for blank forms should be addressed to the Dean of the College. Application for admission should preferably be made by March 1. *No application received after August 1 can be promised consideration.*

Every admission is an "admission on trial" to the actual work at the College. The University reserves the right to require the withdrawal at any time of any student whose record in either conduct or scholarship fails to meet the expectations implied by his admission.

Application blanks, as well as official transcripts of preparatory school records and certificates of character should be sent directly to the College by the school officials who sign them.

Special students are not admitted to the College. They may be admitted to the University on the recommendation of a department and under the supervision of the Committee on Extension Courses and Special Students.

ADMISSION TO THE FRESHMAN CLASS

Satisfactory references as to character and the completion of a four-year high school course or its equivalent, including fifteen units of credit in acceptable subjects, are required for admission to the freshman class.

The term "unit" is understood to mean approximately one-quarter of a pupil's normal program of work for the school year.

The "fifteen units of credit in acceptable subjects" must include the "required subjects," 5 units; not less than seven units from the "restricted electives"; and not more than three units from "free electives."

A normal preparatory program will include:

Required subjects, 5 units

English, 3 units (4 years)

Mathematics, 2 units (Algebra and Geometry)

Restricted electives, 7 or more units (see note 1) chosen from

Foreign language, 2, 3 or 4 units (see note 2)

Social sciences, 2 or 3 units (see note 3)

Natural sciences, 2 or 3 units (see note 4)

Mathematics, 1 or 2 units (in addition to required units)

Free electives, not more than 3 units, at the discretion of the committee on admissions, in "commercial subjects" or other subjects recognized by the preparatory school in its regular program leading to graduation.

NOTE 1. Each of the first three groups of subjects under "restricted electives" must be continued in college. Any deficiency in the number of units presented for admission involves an increased requirement in college in the corresponding group of subjects.

NOTE 2. The college does not recognize less than 2 units in any foreign language.

NOTE 3. History, Government, Civics, Economics, etc.

NOTE 4. Physics, Chemistry, Biology, etc.

An applicant for admission to the freshman class should supply, on blanks furnished by the college:

1. A signed application for admission which should be forwarded by the principal of the school in which the applicant has prepared for college, after the "Personality Rating Scale" has been completed by a responsible officer of the school. This application should be filed with the Dean at the earliest practicable date.
2. A complete statement of his preparatory school record. This should be mailed to the Dean by an officer of the school. (See statement below in regard to certification.)
3. Records of any entrance examinations which he may have taken and of any action by any other college in respect to admission.

"CERTIFICATES"

Applicants whose references are satisfactory and who are "certified" in fifteen acceptable units from approved schools will be admitted without conditions.

"Certification" for less than fifteen units may be accepted; (a) for admission *with conditions* (see below) if at least thirteen units are "certified" and the remainder of the required fifteen units are

"passed"; (b) for admission, with or without conditions, if supplemented by a satisfactory record in College Board examinations in subjects not certified.

Certificates are accepted from schools on the list of the New England College Entrance Certificate Board. Schools located in New England but not on this list may apply for "specimen" certification privileges to the Secretary of the Board, Dean Frank W. Nicolson, Wesleyan University, Middletown, Connecticut.

A certificate from a school, not on the list approved by the Board, can be considered only when the school lies outside of the jurisdiction of the Board. In such cases "certification" will be interpreted, in the spirit of the regulations of the Board. It will be assumed that the school is willing to be judged in respect to continued "certification" privilege, on the basis of the college records of the candidates in subjects which are "certified".

ENTRANCE EXAMINATIONS

Applicants who cannot present at least thirteen "certified" units should arrange in consultation with the Dean of the College to take "College Board" examinations in June. Information concerning these examinations may be obtained from school officers or by addressing the College Entrance Examination Board at 431 West 117th St., New York City. Applications for examinations must be received by the Board before the end of May.

Those who make a satisfactory record in designated examinations may be admitted to the College with or without conditions. The College will determine in each case what constitutes a satisfactory record in the examinations.

A final opportunity to qualify for admission by examination is offered at the College immediately before the opening of the academic year in September. These examinations are provided by the College Entrance Examination Board, and are intended to supplement those held in June. Admission to these examinations is by special permission in each case. A fee of \$5.00 is charged by the College for a single examination, with an additional fee of \$3.00 for each additional subject.

ADMISSION WITH CONDITIONS

Applicants who present fifteen "passed" units in acceptable subjects but who are not "certified" in one or, at most, two units, may be admitted with one or with two conditions respectively. Applicants whose shortage in "certified" units is more than two have an

opportunity to qualify for admission, with or without conditions, by satisfactory records in "College Board" examinations.

Conditions may be in specified subjects, or may be general, in the latter case indicating some deficiency in the high school course as a whole. All conditions are terminated at the beginning of the sophomore year either by removal in the manner specified below or by additions to the requirements for graduation.

Conditions are removed if at the end of the freshman year the conditioned student has met the normal scholarship requirements for regular standing, namely, no failures and a rank above the lowest quarter of the class in three-fifths of his courses. Conditions may also be removed by satisfactory records in "College Board" examinations covering the conditioned subjects in June or September following the freshman year.

Applications for examinations in September, for the removal of conditions, should be filed with the Recorder not later than the first of July preceding the date of the examinations. The fee for examination must be paid when applications are filed.

Each condition not removed at the beginning of the sophomore year will be replaced by an additional requirement for graduation amounting to one half-course.

ADMISSION TO ADVANCED STANDING

A student who wishes to enter the College after having been enrolled in another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the institution last attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally assigned to the freshman, sophomore, junior, or senior class and will be permitted to register for a suitable program. He will not be given a final class rating until he has been in residence for at least one semester. After satisfying this requirement he will be given conditional credit for the work done elsewhere to an amount determined by vote of the College Board, on the recommendation of the Recorder and the departments concerned.

The Bachelor's degree will not be conferred upon a student who has not spent at least a year in residence at Clark University, and usually not unless the period of residence includes the two semesters immediately preceding the granting of the degree.

FACULTY ADVISERS

When a student is admitted to the College he is assigned to a member of the faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel, either in regard to problems of college life or other matters. The student should consult with his adviser as soon as possible after the opening of the college year in order to outline his program of studies.

REGISTRATION

Registration days are the first day of the academic year and the week preceding the examination period at the end of the first semester. Failure to register on or before these days involves a charge of \$1.00 for each day's delay up to a maximum of \$5.00.

A student's record of attendance begins with the first day of the semester. No credit for attendance is given until registration is completed. In cases of delayed registration unexcused absences are recorded for all scheduled meetings of courses unless excuses acceptable to the College Board are presented.

During the first week of any semester changes of courses may be made for sufficient reason with the written approval of the student's adviser and the instructors concerned. After the first week of any semester no changes may be made except such as are authorized by special vote of the College Board.

Freshmen may register for programs of either five or six courses in the first semester. In subsequent semesters programs of six courses are restricted to students whose average rank in all courses for the preceding semester is 50th among 100, or better, except in the case of seniors. A senior whose graduation at the end of the year depends upon the completion of a program of six courses may register for such a program in either semester if his average rank for the preceding semester is 75th among 100, or better.

The election of a *major* and *minor* is required as part of registration at the beginning of a student's second year in college. This election when once recorded may be changed only with the approval of the Dean. Although the *major* and *minor* are not officially regarded as fixed until the student's second year in college, he should plan his course as definitely as possible from the beginning with his probable choice in view.

STUDENT PROGRAMS

The curriculum permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies contains two principal subjects (a *major* and a *minor*) together with required courses in English, fine arts, and certain subjects chosen in accordance with rules intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

Regular students normally carry programs of five courses in addition to the required work in physical training. In general it is expected that a course meeting three times weekly will require two hours of preparation for each lecture or recitation. Laboratory periods are usually three hours in length.

A student carrying the regular program should expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in physical training.

Candidates for the bachelor's degree in less than four years will generally carry programs of six courses and should expect to spend practically their entire time on their college work.

The subjects in which instruction is offered are grouped in three divisions:

DIVISION A

Biology, Chemistry, Experimental Psychology, Geology, Mathematics, Meteorology, Physics, Physiology.

DIVISION B

Economics, Fine Arts, Geography, History, International Relations, Psychology, Sociology.

DIVISION C

Ancient Languages, English, German, Romance Languages.

Each student elects a department in which he will complete a *major*, and a related department in which he will complete a *minor*. The choice of *major* and *minor* usually involves certain specific requirements in other subjects. For these and for statements as to what particular courses may be used for a *major* and a *minor* the announcements of the different departments should be consulted.

First year students must make up their programs entirely from courses designated as "Open to Freshmen."

The program for the freshman year must include:

1. English 11.
2. A course in Foreign Language.
3. A course in Division A.
4. A course in Division B.
5. An elective. (Mathematics 110 or 111 for students intending to major in Division A.)

Second year students should, as a rule, complete the requirement in English, continue work in Foreign Language, and complete the requirements f and g listed under 3 below. A course in appreciation of the fine arts is a requirement for second year students unless they have completed this course with a satisfactory record in the first year. *Any first year requirements which have not been completed must be included in the program of courses for the second year.*

Undergraduates, other than freshmen, may enter any course listed "primarily for undergraduates," for which, in the judgment of the instructor in charge, they are prepared. Seniors and juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed "for graduate students and advanced undergraduates." Undergraduates are not admitted to courses "primarily for graduate students" except in rare cases, and then only by special vote of the College Board and the approval of the Secretary of the Graduate Board.

Regular gymnasium exercise is required of all students (with certain exceptions) for the general promotion of their health and mental efficiency. This work is scheduled at times which avoid conflict with recitation hours.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

Beginning September, 1934, all college regulations involving a quantitative statement of "credit" are expressed in terms of "courses" instead of "semester hours." Records in terms of semester hours made prior to September, 1934, will be interpreted in terms of courses on the basis of one "course" for six "semester hours".

Students who satisfy all of the following requirements will be recommended for the degree of Bachelor of Arts unless in the judgment of the College Board there is cause for withholding this recommendation.

1. Not less than three academic years of college study in residence. At least one full year and usually the last year before the degree is conferred must be spent at Clark University.

2. The completion of twenty "courses" (in addition to the required work in physical training) with satisfactory scholarship standing.

A "course" as a unit of credit implies, normally, three or four class meetings or laboratory exercises per week throughout the academic year, i.e., one-fifth of a student's normal program. Where departments offer fractional courses, these will be combined in reckoning a student's total credit in courses.

3. The following requirements in specified subjects and fields of study.

- a. A *major* of not less than four courses.
- b. A *minor* of not less than three courses.
- c. A requirement depending on the choice of the *major* subject, one course.

With a major in Division A, the requirement is Mathematics 110 or 111.

With a major in Division B, the requirement is either Greek, Latin, mathematics or a third year college course in a modern foreign language, subject to the approval of the department in which the *major* lies.

With a major in Division C, the requirement is Greek or Latin. This requirement is waived if two units of Greek or Latin have been presented for admission.

Work taken in fulfillment of this requirement (c) may also be counted toward the fulfillment of requirement (e) or (f).

- d. *English*, two courses, including English 11 required in the first year and an additional course required before the end of the third year.

"Fine Arts" and "Public Speaking" are not accepted in fulfillment of this requirement.

- e. *Foreign Language*, not more than five courses nor less than one course depending upon the amount of foreign language accepted for admission.

Each student must complete, *in college*, one course in a foreign language at a level not lower than the second year college course in that language.

Each student must complete, either in preparatory school or in college, the equivalent of five courses, including a course at the third year college level in some one language. No allowance is made for less than a single course in any one language.

In calculating equivalents under this requirement, the first two units of preparatory work in one language are accepted as the

equivalent of one course of college work and each additional unit in the same language is accepted as the equivalent of an additional course.

- f. *Division A*, two courses for students whose admission record included two or three units in the natural sciences. For students admitted with less than two units this requirement is three courses. For students admitted with four or more such units the requirement is reduced to one course.

This requirement, if more than one course, must be divided between at least two departments, and at least one course must be a laboratory course in biology, chemistry, geology, or physics.

Courses in the history of various sciences may not be used in fulfillment of this requirement.

- g. *Division B*, two courses for students whose admission record included two or three units of history or related subjects. For students admitted with less than two units in this field, the requirement is three courses. For students admitted with four or more units in this field, the requirement is reduced to one course.

This requirement, if more than one course, must be divided between at least two departments with not less than one full course in some one department.

- h. *Appreciation of the Fine Arts*, a half-course, required before the end of the second year.

4. *Physical Training*, three hours per week throughout three years. Any student may be excused from this requirement for adequate reasons.

GRADING AND SCHOLARSHIP

A student's scholarship record is determined by his relative standing (rank) in each of his courses, among those who "pass."

College regulations concerning scholarship are based on the assumption that in any large class the major portion will do fairly satisfactory work and that the remainder will be about equally divided between those who clearly rank above and those who as clearly rank below the group just mentioned.

It is not assumed that every high rank implies excellent scholarship or that every low rank unsatisfactory scholarship, but it is taken as axiomatic that a high average rank indicates relative excellence, and that a low average rank indicates a relatively unsatisfactory record.

In recognition of the superior quality of work necessary to insure a high rank, additional credit is given to students who are ranked in

the upper quarter in any course at the end of any semester. This extra credit in each semester amounts to one-sixth of the credit for the course for ranks from 1 to 5, on the basis of a class of 100 students, one-tenth for ranks from 6 to 15 and one-fifteenth for ranks from 16 to 25.

Courses in which a student is ranked in the lowest quarter of the class are counted toward the degree of Bachelor of Arts only when combined with courses in which the rank is higher, in the proportion of two courses in which the student stands in the lowest quarter to three courses in which he stands *above* the lowest quarter.

For the present, reports to students are made in terms of "grades" defined as follows: A, distinguished; B, superior; C, acceptable; D, unsatisfactory; F, failed. These grades are further defined by the expectation that in the long run, of the passing grades, not more than 5% will be A, not more than 25%, A and B combined, approximately 50%, C, and approximately 25% D.

CLASSIFICATION OF STUDENTS

Students are classified as freshmen, sophomores, juniors and seniors on the following basis:

A student who at the beginning of any academic year, has credit of less than two and one half courses is classified as a *freshman* for that year.

A student, who, at the beginning of any academic year, has credit of two and one half courses or more, but less than eight courses is classified as a *sophomore* for that year.

A student, who, at the beginning of any academic year, has credit of eight courses or more, but less than fourteen courses is classified as a *junior* for that year.

A student, who, at the beginning of any academic year, has credit of fourteen courses or more, is classified as a *senior* for that year.

A student who has announced his intention of becoming a candidate for the degree of Bachelor of Arts in three years and who, at the beginning of his third year has completed not less than two thirds of the twenty courses required for graduation is classified as a *senior* for that year.

Any student, who, at the beginning of the second semester, is clearly in a position to complete the requirements for the degree before the beginning of the next academic year, is classified as a *senior* for the second semester.

HONORS

First honors and *second honors* are awarded annually to those members of each class who have, in the judgment of the College Board, distinguished themselves by their scholarship during the year.

The bachelor's degree is awarded *with honor*, *with high honor*, and *with highest honor* to those members of each graduating class whose records warrant this distinction and who are not candidates for "departmental honors."

DEPARTMENTAL HONORS

Beginning with the class of 1936 a sophomore whose average standing for his first two years in college places him in the highest third of his class may become a candidate for an *honors* program in his major subject. Any student of this standing may file a formal application with his major department not later than the *first day of May* in his sophomore year. If the application is favorably endorsed by the department concerned, it comes before the College Board for final action after the sophomore year has been completed. The action of the Board either admitting the applicant to an honors program, or refusing admission is reported in writing both to the applicant and to the department. A student who has satisfied the stated scholarship requirement at the end of his sophomore year, may, upon the recommendation of his major department and the approval of the College Board, be admitted to honors work as late as the end of the first semester of his junior year.

When an applicant has been provisionally accepted by a department for an honors program, he is assigned to a member of the department who acts as "honors adviser." The adviser has supervision of all matters pertaining to the honors program. A program for the student's junior and senior years is prepared in consultation with the adviser. This program may involve independent supervised study replacing work in regular classes to the equivalent of two full "courses". This program, after approval by the department, is filed with the Recorder at the beginning of the student's junior year.

Admission to candidacy for departmental honors does not relieve a student from any of the standing regulations of the college except as specifically here stated. A candidate for departmental honors will receive the degree of Bachelor of Arts "with honors in his major subject" if he completes the general requirements of the college and in addition thereto:

- (a) Maintains an average satisfactory to his major department.

(b) Completes satisfactorily the program of regular course work and of independent supervised study referred to above.

(c) Makes a satisfactory record in a comprehensive examination conducted by the department in the field of his major subject.

(d) Is recommended for departmental honors by his major department and by the College Board.

The comprehensive examination requires not less than two nor more than three regular three-hour examination periods or their equivalent. At least three hours of this total is devoted to a written examination. The comprehensive examination, with the possible exception of laboratory tests, is given between the spring vacation and May 15 of the candidate's senior year. An honors candidate who has passed the comprehensive examination may, at the discretion of his major department, be excused from some or all of the final examinations *in the courses in his major subject*.

A student's candidacy for honors and all privileges connected with it may be terminated by the College Board at the end of any semester upon the recommendation of his major department. In such an event the amount of credit to be allowed for extra-course work done by the student is determined by the College Board upon the recommendation of the department.

SCHOLARSHIP SOCIETY

The Clark Scholarship Society was organized in 1914. This society is similar in aims to the Society of Phi Beta Kappa. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the Society." Membership in the Society is open to members of the faculty. New student members are normally elected at the end of each year from among the men of high standing in the junior class. Nominations are made by the College Board and the undergraduate members of the Society elect from the men so nominated. Additional nominations are made at the middle and end of the senior year.

ELIGIBILITY FOR EXTRA-CURRICULAR ACTIVITIES

Participation in extra-curricular activities is denied only to those students whose scholarship records indicate that further encroachment upon their time and attention may interfere with the completion of their course of study.

A student is "eligible" for the following half semester if at the end of any half semester he is meeting either of the following conditions:

- (a) "Passing" in all courses and ranking above the lowest quarter of the class in at least one course.
- (b) "Passing" in all but one course, and ranking above the lowest quarter of the class in at least two courses.

Students carrying less than a full program of studies are ineligible, except in the case of seniors whose programs are adequate to insure their graduation at the end of the academic year.

Students admitted with advanced standing from another college are "ineligible" for the first half-semester of residence at Clark University except by special action of the College Board. Special students are "ineligible."

STUDENT LIFE

It has always been the policy of the University to give to its students the greatest possible individual liberty of action and to adopt few rules of conduct.

It is assumed that each student will conform to the recognized standards of morality, good order, and gentlemanly conduct, that he will not absent himself unnecessarily from university exercises at which he is due, and that he will give his serious and constant attention to his work as a student.

Undergraduate organizations are under such control as will insure proper caution and recognition of responsibility in business dealings.

The general supervision of intercollegiate athletics is committed to an Athletic Board consisting of the Director of Physical Training, the Committee on Athletics of the College Board, two alumni elected by the Alumni Association, and nine student members. The actions of this Athletic Board are subject to review and veto by the Committee on Athletics.

The non-athletic activities are supervised by the Student-Faculty Council.

Opportunity for relaxation and the meeting of students and faculty on a basis of general sociability is provided by the various clubs in which both students and faculty participate.

Student activities include a Glee Club and Orchestra which give a series of concerts in Worcester and elsewhere during the winter; a Debating Society whose members have made an enviable record

for the University in intercollegiate debates; the Gryphon, a senior honor society, and other organizations.

The Clark University Players is an active student organization which presents a number of plays each year under the direction of the Department of English.

The Clark News, a weekly undergraduate publication, and the *Pasticcio*, the college annual, are published by the students.

THE GRADUATE DIVISION

GENERAL INFORMATION

Admission to the Graduate Division is open to properly qualified persons, both men and women.

Instruction and opportunities for original research leading to the degrees of Master of Arts and Doctor of Philosophy are offered by the following departments:

- *Biology
- Chemistry
- Economics and Sociology
- Geography
- History and International Relations
- Physics
- Psychology

Other departments offer courses of an advanced nature which, with the consent of the Graduate Board, may be included in the programs of graduate students, but are not prepared at present to offer complete programs leading to the higher degrees.

A complete statement regarding tuition and expenses will be found under the heading "Tuition and Fees."

SCHOLARSHIPS AND FELLOWSHIPS

The University awards annually a number of scholarships yielding tuition and in some cases an additional stipend of not more than \$200, and fellowships yielding tuition and additional stipends up to a value of \$400. These stipends are provided from the income of the George F. Hoar Fund, the gift of Andrew Carnegie, and from other sources.

STUDENT AID

Student aid is available from the following funds, with the restrictions noted.

A CITIZEN'S FUND, the income of which is to be used for the aid of "some one or more worthy native born citizens of the City of Worcester who may desire to avail themselves of the advantages of the institution." The benefits of this fund are available to graduate students only.

*In the department of Biology programs leading to the doctorate are limited to the field of Physiology.

THE JOHN WHITE FIELD FUND, the income of which is "to provide for the minor needs of a scholar or fellow," has been established by Mrs. Eliza W. Field. The fund amounts to five hundred dollars.

THE ELIZA D. DODGE FUND is a sum of one thousand dollars, the income only of which is to be expended to aid graduate students of limited means engaged in research work.

LOAN FUNDS

THE SARAH M. THURBER FUND. This fund has been established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Loans from this fund bear interest at the rate of 6 per cent per annum.

ALUMNI LOAN FUNDS. Loans from these funds are available on suitably endorsed notes. Applications require the approval of the student's major department, the Committee on Credentials of the Graduate Board, and the chairman of the Alumni Loan Fund Committee.

LIBRARY FACILITIES

In addition to the library facilities provided by the University students may avail themselves of the privileges of several other excellent libraries in the city. The Worcester Public Library contains some 237,000 volumes and makes accessible to the public about 600 newspapers and magazines. The library of the American Anti-quarian Society, housed in the national headquarters of the society in Worcester, contains about 136,000 volumes and some 202,000 pamphlets. The library of the Worcester District Medical Society is also at the disposal of members of the University.

ADMISSION TO THE GRADUATE SCHOOL

Eligibility. Admission is granted only by the Graduate Board on recommendation of a department. A graduate of more than average ability from a college or university which was on the approved list of the Association of American Universities at the time his bachelor's degree was obtained is eligible for admission as a *regular graduate student*. A graduate of superior attainments from a four-year college not on the list, is normally eligible for admission only as a *special graduate student* for a specified period, not exceeding one academic year. A special graduate student may be admitted by the Graduate Board to regular graduate standing after

a semester, or its equivalent, of study in residence and upon the recommendation of his major department.

Application. A prospective applicant should communicate with the department in which he expects to do his major work. If he is encouraged to make application by the department, he will receive the application blanks for admission and should submit them to the Chairman of the department with an official transcript of undergraduate work, two letters of recommendation from persons in a position to speak frankly of his qualifications, and a recent photograph (passport size preferred). A photograph is not required of those who have had a personal interview with members of the staff. Any other pertinent information, including published or unpublished theses or other writings, may accompany the application. For most favorable consideration, applications for appointments for the succeeding year should be in the hands of the Chairman of the respective department by March 1st.

Admission. In granting admission, the Graduate Board may, with the advice of the department, prescribe a minimum period of residence never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School does not in any way imply admission to candidacy for a degree. Admission to the Graduate School is granted for entry only at the specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered as a regular student, his period of graduate study is broken by more than a year, he must make formal application for re-instatement.

Undergraduates and non-graduate special students in graduate courses. Admission of other than regular or special graduate students to a course "Primarily for Graduate Students" may be authorized by the Secretary of the Graduate Board on formal recommendation in each case by the department in which the course is offered.

SCHOLARSHIPS AND FELLOWSHIPS

GENERAL REGULATIONS

1. Scholarships and fellowships (except honorary appointments) are for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy in this University.
2. All applications for fellowships and scholarships shall be presented to the Chairman of the Credentials Committee accompanied

by an official transcript of record, letters of recommendation, a photograph, and endorsed with the department's recommendation. Applications when complete and properly endorsed will be considered by the Committee on Credentials for recommendation to the Graduate Board. According to an agreement of the Association of American Universities, the elections of fellows and scholars will be communicated on April 1st, but not before, to each member of the Association of American Universities and to each successful candidate.

3. An appointment will become effective when an acceptance in writing is filed with the Secretary of the Graduate Board within fifteen days of the date of notification.

4. Scholarships or fellowships are not transferable from one department to another except with the approval of the Graduate Board.

5. A scholar or fellow may not engage during the term of appointment in any occupation that may interfere with his duties as a full-time graduate student unless he obtains permission from the Graduate Board to do so.

SCHOLARSHIPS

Scholarships may be awarded to students of high rank who may be expected to fulfill the requirements for the master's degree in the normal time. These scholarships are valued at from \$100 to \$400 including tuition.

FELLOWSHIPS

Fellowships valued at \$200 to \$400, which are equivalent to tuition alone or to tuition and an additional stipend up to \$200, may be awarded to competent, full-time, regular graduate students who have completed an amount of graduate work equivalent to the requirements for the M.A. degree. Fellowships valued at \$200 to \$500, equivalent to tuition alone or to tuition and an additional stipend up to \$300, may be awarded to competent graduate students who give promise of completing their work for the degree of Doctor of Philosophy by the end of the academic year for which the appointments are made.

Some of these fellowships will be designated as *research fellowships* or *teaching fellowships*, with the consent of the applicant and on the recommendation of the department, in cases where research or teaching assistance in the department is to be a duty of the fellow. Where the research or teaching duties in such fellowship or in an

assistantship would prevent a scholar or fellow from carrying a full program of studies during the academic year, he may nevertheless qualify for full-time credit for the year through an adequate summer program of research or reading directed by the major department and approved by the Graduate Board.

HONORARY FELLOWSHIPS

Distinguished visitors may be appointed Honorary Fellows for specified periods at the discretion of the Graduate Board. Such appointments entitle their holders to all university privileges and carry freedom from tuition charges.

RULES AND REGULATIONS

LANGUAGE REQUIREMENTS

Requirement in English. A student who wishes to become a candidate for a higher degree during his first year of residence may be required to come before the Committee on Language Examinations before admission to candidacy, for a test of the adequacy of his knowledge of English in respect to speaking, reading and writing.

A candidate for a graduate degree after more than one year of graduate study must satisfy his major department in respect to his knowledge of English.

Foreign Languages. A prospective candidate for the degree of Doctor of Philosophy is advised to prepare himself early for the oral examinations in reading modern languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these. A student must take these examinations not later than February first of his first year of residence at Clark beyond the master's degree. When he is ready for either or both he is to notify the Recorder, who will arrange for the examination to be held within two weeks if possible. These examinations are conducted by a committee composed of a representative of one of the modern language departments, and a representative of the student's major department. The committee shall report the results of the examination to the Recorder. Additional language requirements may be imposed by the student's major department.

RESIDENCE

A regular year of full-time study or its specified equivalent in residence at Clark University is a prerequisite for any degree. Residence work is broadly defined as regular work at Clark Univer-

sity done under the immediate personal supervision of at least one member of the university faculty. A field trip led by a member of the university faculty who is regularly engaged in graduate instruction is considered as providing an opportunity for work in residence to a maximum extent of nine weeks.

Only the following are recognized as equivalents to a regular academic year:

For the degree of Master of Arts, one full semester of the regular academic year and the equivalent of 18 other weeks on a full-time program of graduate work approved by the major department;

For the degree of Doctor of Philosophy, a sufficient number of courses taken during the regular academic year, even if spread over a number of years.

THE DEGREE OF MASTER OF ARTS

Admission to Candidacy. Regular students who have been admitted to the Graduate School without condition, or others who have met any special requirements imposed by the Graduate Board, may, when they have demonstrated their ability to do satisfactory work, be accepted by the Graduate Board as candidates for the degree of Master of Arts. An application for admission to candidacy for the master's degree will be considered by the Graduate Board when the student has:

1. Completed one semester of full-time graduate work or its equivalent in residence at this university;
2. Paid the diploma fee (\$10) and publication fee (\$10), and
3. Obtained the written endorsement of his major department.

Applications should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for the degree. Unless extended by action of the Graduate Board, candidacy for the degree of Master of Arts lapses at the end of three years. When candidacy expires without the degree having been awarded the diploma and publication fees, less any expenses incurred, will be returned.

Course requirements. In order to insure that the student may obtain the necessary training, he must meet a minimum course requirement of 18 semester hours in addition to his research work. The subject-distribution of the courses of each candidate must have the approval of the candidate's major department. A candidate for

the master's degree who is definitely preparing to teach in secondary schools, may, with the approval of his major department, elect one or two semester courses in education which will count toward the fulfillment of this course requirement.

Examinations. The candidate must make a satisfactory record in such written examinations as may be required by the major department, and in a final oral examination of approximately one hour's duration by a committee of three or more, two of whom shall be members of the Graduate Board. The major department shall make a written report in duplicate, one copy to be delivered to the university Recorder and the other to the secretary of the Graduate Board, not later than 9 a. m. of the Friday preceding Commencement, stating the ground on which the candidate is recommended for the degree.

Thesis. The candidate must demonstrate that he has a comprehensive knowledge of his field of study and is capable of carrying on, under direction, a satisfactory investigation in that field. He must submit to his major department, by May 15 of the year in which the degree is to be conferred, a thesis on an approved topic and an abstract thereof. The thesis shall be in a prescribed form on prescribed thesis paper (to be obtained from the Bursar) and shall have a printed title page (to be obtained from the Recorder) that bears the following statement:

"A thesis submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Master of Arts in the Department of _____ and accepted on the recommendation of
(Name of Chief Instructor)."

The title page shall be followed by a page (to be obtained from the Recorder) giving the academic history of the candidate.

The abstract should not exceed 600 words in length and should bear the written statement,

"Abstract approved for publication

(Name of Chief Instructor)."

The thesis and two copies of the abstract, bearing the signature of the chief instructor, shall be delivered to the university Recorder not later than 9 a. m. of the Friday preceding Commencement.

Additional copies of the thesis or abstract may be required by the major department.

THE DEGREE OF DOCTOR OF PHILOSOPHY

Course of Study. Only such candidates as give evidence of general proficiency, power of investigation and high attainments in the special field in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

A graduate student who expects to proceed to the doctor's degree shall select a major subject of study, and at least one minor subject with the approval of the department in which the major subject lies.

Admission to Candidacy. Applications for admission to candidacy must be filed not later than November first, in any academic year, by students who hope to receive the degree at the end of that academic year.

An application for admission to candidacy for the degree of Doctor of Philosophy will be considered by the Graduate Board when the applicant has:

1. Completed two full academic years of graduate work or its equivalent;
2. Passed examinations in at least two foreign languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these;
3. Passed a preliminary examination in his major and minor fields of study;
4. Paid the diploma and publication fees (\$25 and \$15);
5. Filed with his major department an application for admission to candidacy, stating the subject of his dissertation, and
6. Obtained the endorsement of the application from his major department.

Admission to candidacy for the degree of Doctor of Philosophy shall hold good only for three years from the date of the vote granting admission to candidacy. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, will be returned.

Dissertation. For the degree of Doctor of Philosophy an indispensable requirement is a dissertation upon an approved subject, to which it must be an original contribution of value.

Not later than May 1, the dissertation, with an abstract not exceeding 1,200 words in length, must be presented to the instructor under whose direction it is written. The dissertation shall be in a prescribed form on prescribed thesis paper (to be obtained from the Bursar) and shall have a printed title page (to be obtained from the Recorder) that bears the following statement:

"A dissertation submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Doctor of Philosophy in the Department of——— and accepted on the recommendation of
(Name of Chief Instructor)."

The title page shall be followed by a page (to be obtained from the Recorder) giving the academic history of the candidate.

The abstract should bear the written statement:

"Abstract approved for publication

(Name of Chief Instructor)."

The dissertation and abstract must be accepted by the chief instructor before the final examination may be held. In every case the dissertation shall be laid before the examining committee at the time of examination, with the comments of the chief instructor and other readers.

The complete copy and two copies of the abstract of the dissertation, bearing the signature of the chief instructor, shall be delivered by the department to the university Recorder not later than 9 a. m. of the Friday preceding Commencement. The dissertation and one copy of the abstract will be deposited by the Recorder in the Library, where they shall remain permanently, not subject to withdrawal.

A second copy of the dissertation, accompanied by a copy of the abstract shall be delivered to the department or the library for loan purposes.

If and when a dissertation is published, five of the printed copies should be presented to the Clark University Library; four copies to be retained by the Library and the other to be presented to the Library of Congress for its annual list of American doctoral dissertations printed.

At the final examination the student will be expected to defend his dissertation and, at the discretion of the examining committee, he may be questioned over the entire field of his study. The final examination will be at least a two-hour oral examination. Additional written examinations may be given at the discretion of the department concerned. The oral examination will be held by a committee of at least four members, including the chairman or his duly appointed representative and one other representative of the department in which the candidate has done his major work, one or more representatives of the department or departments in which the candidate has elected his minor subjects, a member of the Graduate Board under whom the candidate has done no work, and such other members of the Graduate Board as care to attend.

The President of the University is authorized to invite any person from within or without the University to be present and to assist in the examination. The committee shall in each case appoint a clerk who shall report the results of the examination to the university Recorder.

Each department shall render to the university Recorder and to the Secretary of the Graduate Board final reports in writing on all candidates for the degree of Doctor of Philosophy not later than 9 a. m. of the Friday preceding Commencement.

THE GRADUATE SCHOOL OF GEOGRAPHY

STAFF

WALLACE W. ATWOOD, PH.D., Professor of Physical and Regional Geography and Director of the Graduate School of Geography.

DOUGLAS C. RIDGLEY, PH.D., Professor of Geography in Education, Director of Home Study.

CLARENCE F. JONES, PH.D., Professor of Economic Geography.

W. ELMER EKBLAW, PH.D., Professor of Geography, Assistant Editor, *Economic Geography*.

SAMUEL VAN VALKENBURG, PH.D., Associate Professor of Climatology and Regional Geography.

WALLACE W. ATWOOD, JR., PH.D., Assistant Professor of Physiography and Regional Geography.

CURTIS F. MARBUT, PH.D., Special Lecturer on Soils.

GUY H. BURNHAM, A.M., Cartographer.

GENERAL STATEMENT

The Graduate School of Geography gives opportunity to properly qualified students to secure advanced training in Geography. The staff is composed of specialists in the various fields of Geography. They must of necessity spend a portion of their time in travel and in field studies, but while in residence, they offer regular courses of instruction and direct advanced students in research work. It is not the intention to offer all courses of instruction each year; many of them are given once in two years. Abundant opportunities for instruction are provided, but graduate students are advised not to burden themselves by attending too many lecture courses. They must depend very largely for their growth upon their individual efforts in research, under the direction of members of the staff. The map collection and the Libraries offer them unusual facilities for research work in residence, but it is hoped that all graduate students, before completing their university work, may undertake field studies.

The publication of *Economic Geography*, issued quarterly, was begun in 1925.

In the Summer School each year many members of the geography staff offer both elementary and advanced courses. These are ac-

ceptable for preparation for graduate work and for meeting the requirements for the degree of Master of Arts.

GEOGRAPHY COURSES FOR COLLEGE STUDENTS

Undergraduates planning to major in Geography or to go on into graduate work in Geography are urged to consult the Geography Staff early in their undergraduate course, so that suitable programs may be mapped out including essential courses in related fields. Students planning to major in Geography are required to take the following Geography and related courses:

Freshman year: Geog. 10, Physics 11 or Biology 11.

Sophomore year: Geog. 185a, 181b, Geol. 12, and Econs. 11 or Biology 14.

Junior year: Geog. 12a or 17a, 15b, and History 18.

Senior year: Geog. 26.

Students majoring in Geography may, by special permission, elect in their third and fourth years advanced courses in Geography.

Students minoring in Geography should take Geog. 10 as the first unit, Geog. 185a and 181b as the second unit, and Geog. 26 as the third unit; students minoring in Geography should take Geol. 12 in their second or third year.

GRADUATE WORK IN THE SCHOOL OF GEOGRAPHY

The Graduate School of Geography is open to any who wish to receive professional training in geography, and who are qualified to enter the Graduate Division of the University and take advanced work in geography. The undergraduate preparation for advanced work is indicated by the above college program.

Degrees of Master of Arts and of Doctor of Philosophy are conferred. For the Master's degree two years may be required for those whose preparation is considered to be insufficient to permit them to qualify in the minimum time.

The following courses in other departments should be of interest to students in Geography: Botany (Biol. 14); Economic History (Ec. 14); Economic Statistics (Ec. 16); International Trade and International Finance (Ec. 27a); International Economic Policies (Ec. 31); The Pacific and the Far East (Hist. 22); Latin America (Hist. 27).

All prospective candidates for graduate degrees in geography who are in residence will be expected to attend the field camp for three weeks each autumn, and during the year to take part in the seminar.

Formal course work in geography ends in midwinter on January 15, and in spring on May 1, leaving students free to read and to coördinate their work prior to the examination periods.

Candidates for the master's degree in Geography will be expected to pass written examinations and a general oral examination in the following fields: physiography, climatology, soils, plant geography, land utilization and agricultural geography, economic geography, human geography, regional geography, and geography in education.

Candidates for the doctor's degree in geography will be expected to pass more advanced written examinations, and a general oral examination including the broad foundation required for the master's degree and such more advanced studies as the candidate may have pursued in the fields of his particular interests. In general, a year of work beyond the master's degree should prepare a candidate for his general examination which is preliminary to his being accepted as a candidate for the Ph.D. degree and to his entering on concentrated work for his Ph.D. dissertation. This year of course work may well include, besides certain advanced courses in geography, related advanced studies in history and international relations, economics, or biology. The student is given much freedom of choice. By February 1 of the year prior to the final one for the doctorate a prospective candidate for the doctorate will be expected to show a reading knowledge of German and French.* These two foreign languages are the most important for American geographers.

STUDENTS' FEES

All geography students in residence must meet the camp fee, the workroom fee, and a classroom materials fee.

The camp fee covers board and lodging, transportation, maps, drafting supplies, and meteorological instruments from the time the party leaves Worcester to go to camp till it returns at the end of the three weeks' period. The fee is \$75, payable October 1 to the camp treasurer. The tuition fee for students participating in the field course only is \$25.

The workroom fee is assessed to help maintain the geography workroom and equipment used by graduate students. It applies to the alcove desk, files of maps, the card catalog, drafting tables and instruments. There are also adding and computing machines. The

*While German and French will normally be the two languages required, an exception might be made in a case where the dissertation for the doctorate demands a comprehensive knowledge of Spanish.

workroom fee is \$5.00 a semester, payable November 1 and March 1, to the departmental stenographer.

The classroom materials fee is for mimeographed outlines, abstracts, summaries, chapters of theses in the various courses and in the seminar and for the maintenance in part of the classroom wall-maps and other equipment, and for the small expense of balloons and hydrogen and of some meteorological instruments. The classroom materials fee is \$5.00 each semester, payable November 1 and March 1, to the departmental stenographer.

COURSES IN GEOGRAPHY*

1. PRIMARILY FOR UNDERGRADUATES

10a. The Significance of Geographic Environment. An introduction to the principles of geography.

Half course, first semester. M. W. F., 10.

THE STAFF OF THE DEPARTMENT

10b. Geographic Regions and Their Economic Significance.
Open to Freshmen.

Half course, second semester. M. W. F., 10. MR. ATWOOD, JR.

[100a. **Conservation of Natural Resources.** MR. RIDGLEY]

[119. **Geography in Junior High School Education.**

MR. RIDGLEY]

181b. Geography of North America.

Open to Freshmen.

Half course, second semester. M. W. F., 8. MR. ATWOOD, JR.

[185. **Geography of Europe.** MR. RIDGLEY]

Geology 12. General Geology.

MR. LITTLE

12b. Weather and Climate.

Half course, second semester. M. W. F., 9. MR. VAN VALKENBURG

[12b. **The World Climates.**

Half course, second semester. M. W. F., 9. MR. VAN VALKENBURG

Biology 14. General Botany.

MR. POTTER

*Beginning September, 1934, "courses" listed as units of instruction for undergraduates will no longer be "credited" in "semester hours." Each year course will be counted as "one course" and each semester course, as a "half-course" unless specific notice to the contrary appears in connection with the announcement of the course.

[17a. **Geography of Worcester and Vicinity.** A field and laboratory course. Prerequisite, Geography 10a and 10b and Geology 12, or equivalent.

Half course, first semester.

MR. ATWOOD, JR.]

[18b. **Regional Physiography of North America.** Prerequisite, Geology 12, or 9 hours of geography.

Half course, second semester.

MR. ATWOOD, JR.]

[Geology 121a. **Mineralogy.**

MR. LITTLE]

[Geology 122b. **Economic Geology.**

MR. LITTLE]

NOTE: Geography courses in groups 2 and 3 were omitted during the first semester of 1934-35 while the Staff was engaged in field work for three months with the graduate students.

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

26b. **Economic Geography.** Prerequisites, Geography 10a, 10b, 12a, 12b, and Geology 12.

Two hours weekly, second semester. Tu. Th., 9.

MR. JONES

201b. **Geography of Asia.**

Two hours weekly, second semester. Tu. Th., 2.

MR. VAN VALKENBURG

[202b. **Political Geography.**

MR. VAN VALKENBURG]

[290a. **Cartography and Graphics.**

One hour weekly, first semester.

PRESIDENT ATWOOD AND MR. BURNHAM]

[29b. **Geography in Education.** Prerequisites, Geography 10a and other geography courses totaling at least 12 hours.

MR. RIDGLEY]

3. EXCLUSIVELY FOR GRADUATE STUDENTS

30. **Seminar.**

Th., 3:30.

STAFF

31b. **Interpretation of Physical Features of Landscape.** Prerequisite, Geology 12, or equivalent in physiography.

Two hours, second semester. M. W., 9.

PRESIDENT ATWOOD AND MR. ATWOOD, JR.

32b. **Regional Climatology.** Prerequisite, Geography 12, a and b, or equivalent.

Two hours, second semester. M. W., 11. MR. VAN VALKENBURG

- 33b. Soil Geography.**
Daily, for one month. MR. MARBUT
- 34b. Plant Geography.**
Two hours, second semester. M. W., 10. MR. EKBLAW
- 35b. Land Utilization and Agricultural Geography.**
Two hours, second semester. M. W., 2. MR. EKBLAW
- 310. Research in Regional Physiography.** PRESIDENT ATWOOD
- 320. Research in Climatology.** MR. VAN VALKENBURG
- 330. Research in Soils.** MR. MARBUT
- 340. Research in Plant Geography.** MR. EKBLAW
- [341b. Plant Regions of the World.** Prerequisite, Geography 34a.
Two hours, second semester. M. W., 10. MR. EKBLAW]
- 350. Research in Agricultural Geography or Land Utilization.**
 MR. EKBLAW
- [36b. Industrial Geography.** Prerequisites, Geography 26a and 21a or 22a.
Two hours, second semester. M. W., 2. MR. JONES]
- 360. Research in Industrial or Commercial Geography.**
 MR. JONES
- [362b. Geographic Aspects of United States Foreign Trade.**
Two hours, second semester. Tu. Th., 11. MR. JONES]
- [37a. General Principles of Human Geography.** Prerequisites, 9 hours of geography or history and permission of the instructor.
Three hours, first semester. M. Tu. W., 2. MR. EKBLAW]
- 370. Research in Human Geography.** MR. EKBLAW
- [375b. Geography of Europe.**
Two hours, second semester. M. W., 10. MR. EKBLAW]
- 380. Research in Regional Geography.**
 One or more members of the Staff
- 383b. Caribbean America.**
Two hours, second semester. Tu. Th., 10. MR. JONES
- [384a. South America.**
Two hours, first semester. Tu. Th., 11. MR. JONES]

History 22. The Pacific and the Far East.

Three hours, through the year. M. W. F., 10. MR. BLAKESLEE

[394a. **Field Methods and Studies.** Three weeks at the opening of the school year. Connecticut Valley, 1925 to 1930 inclusive; Cape Cod, 1931; Connecticut Valley, 1932 and 1933.

Required each year of all candidates for graduate degrees in geography.]

In 1934-1935 this course was replaced by:

394a. Three Months in the Field. A comprehensive field study of several selected areas of particular geographic interest in eastern United States. Regions to be visited in 1934 include the Finger Lakes, Shenandoah Valley, Great Smoky Mountains, the Tennessee Valley, Birmingham, New Orleans, Florida, and several areas on the Atlantic Coastal Plain and Piedmont. Special circular available. One semester of residence credit.

PROFESSORS ATWOOD, JONES, EKBLAW
VAN VALKENBURG AND ATWOOD, JR.

HOME STUDY COURSES IN GEOGRAPHY

There are many teaching geography in the schools of this country who have not had an opportunity to receive adequate special instruction in this field of work. During the last few years there have been notable developments in the methods used in the teaching of geography and notable changes in the political geography of the world. The human point of view should now dominate in all of the instructional work done with children; the subject should broaden the knowledge and world sympathies of the American people. It is necessary for all teachers of geography who wish to be abreast of the times to carry on in some way their own study and training.

The University wishes to extend its services as widely as possible for the betterment of the teaching of geography, and therefore, in addition to the regular resident courses and the Summer School work, is offering a series of Home Study Courses. Professor Ridgley is in immediate charge of this work.

COURSES

1. **The Teaching of Geography in the Elementary School.**
 - 1a. **The Teaching of Geography based on the New York State Syllabus. Grades 3, 4, 5, and 6.**
 2. **The Teaching of Home Geography and World as a Whole.**
 - 2a. **The Teaching of Third Grade Geography based on the New York State Syllabus.**

3. The Teaching of North America.
4. The Teaching of South America, Europe and Asia.
5. The Teaching of Geographic Factors and the United States in Its World Relations.
- 5a. Interpretation of the Globe, Maps, and Graphs.
6. Industrial and Commercial Geography.
7. Geography of North America.
8. Geography of South America.
9. Geography of Europe.
10. Home Study Course for European Travel.
11. Geography of the Eastern Continents.
12. The Physical Geography of the Lands.
13. Fundamentals of Climate.
14. Climates of the World.
15. Climatology of the United States.
16. Mathematical Geography.
17. Graphics and Cartography.
18. Special Studies in Geography.

CREDITS AND TUITION

Each course consists of 36 written lessons and is intended to be the equivalent of a college course taken in residence, meeting three times per week for a semester of 18 weeks. In general, the preparation and the writing of each lesson is expected to require about four or five hours.

The tuition for each course is eighteen (\$18) dollars, payable at the time of enrollment. A course may be begun at any time, but it should be completed within twelve months.

Further information about these courses will be sent upon request. Address all communications to Clark University, Home Study Department, Worcester, Mass.

THE SUMMER SCHOOL

OFFICERS OF INSTRUCTION AND ADMINISTRATION

WALLACE WALTER ATWOOD, PH.D. Geography
President of Clark University and Director of the Graduate School of
Geography.

ROBERT S. ILLINGWORTH, A.M., ED.M. English
Director of the Summer School and Associate Professor of English, Clark
University.

SAMUEL VAN VALKENBURG, PH.D. Geography
Associate Professor of Geography, Clark University.

EARL B. SHAW, PH.D. Geography
Professor of Geography, State Teachers College, Worcester, Mass.

GUY H. BURNHAM, A.M. Cartography
Cartographer, Clark University.

GEORGE H. BLAKESLEE, PH.D. History
Professor of History and International Relations, Clark University.

DWIGHT E. LEE, PH.D. History
Associate Professor of Modern European History, Clark University.

RAY ALLEN BILLINGTON, PH.D. History
Assistant Professor of History, Clark University.

SAMUEL J. BRANDENBURG, PH.D. Economics
Professor of Economics and Sociology, Clark University.

LOUIS BALSAM, PH.D. Sociology
Assistant Professor of Sociology, Clark University.

VERNON JONES, PH.D. Education
Associate Professor of Educational Psychology, Clark University.

LYDIA P. COLBY Recorder

FLORENCE CHANDLER Bursar

The session of 1935 will begin July 1 and end August 9.

Instruction will be offered in geography, history, education, economics and sociology, and English.

Qualified students are admitted upon presentation of proper credentials. Both undergraduate and graduate work is offered.

Work done in the Summer School may be counted, subject to the regulations of the College and the Graduate School and of the Faculty of the University, toward fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Education, and graduate degrees. Unless otherwise announced, each course is intended to be the equivalent of a course meeting two hours per week throughout a semester and is credited, when accepted toward the fulfillment of the requirements for a bachelor's degree in this University, for two semester hours.

The tuition charges are twenty dollars for a single course meeting five times a week, thirty-five dollars for two or three courses, and forty-five dollars for four courses. Rooms in the vicinity of the University cost from three dollars a week up, and board may be obtained at a reasonable rate.

The Summer School Bulletin, published about February 1, contains detailed information about the coming session with descriptions of the various courses, and may be had upon application to the Director of the Summer School, Clark University, Worcester, Mass.

The names of the students who attended the Summer School in 1934 will be found in the Register at the end of this catalogue.

FIELD TRIPS DURING THE SUMMER SCHOOL

The field trips of 1935 are a continuation of a plan inaugurated by the Clark University Summer School in 1924 for the study of geography out-of-doors.

Saturday field trips for geography and history students will not be offered this summer as a regular course, but such trips will be arranged for each Saturday if sufficient interest is shown.

Fifth Transcontinental Field Trip, Saturday, July 6, to Wednesday, August 28. Instructor: Mrs. Isabelle K. Hart, Instructor in Geography, State Normal School, Oswego, New York.

Full information concerning this trip will be furnished on request.

LIST OF COURSES

The starred courses (*) are those definitely intended, by the department concerned, for students who are candidates for the degree of Master of Arts in Clark University, but the courses are not restricted to such students.

GEOGRAPHY

- SS12. Weather. DR. VAN VALKENBURG
 *SS202. Political Geography. DR. VAN VALKENBURG
 SS14. Economic Geography. DR. SHAW
 SS190. Mathematical Geography MR. BURNHAM
 SS192. Map Interpretation and Appreciation. MR. BURNHAM
 *SS30. Seminar in Geography. THE GEOGRAPHY STAFF
 *SS34. Research in Geography. DR. VAN VALKENBURG AND DR. SHAW

HISTORY

- *SS20. Survey of International Relations. DR. BLAKESLEE
 *SS21. The Far East. DR. BLAKESLEE
 *SS351. Research in the International Relations of the United States. DR. BLAKESLEE
 *SS352. Research in the International Relations of the Pacific and the Far East. DR. BLAKESLEE
 SS1. History of Europe, 1500 to 1830. DR. LEE
 *SS221. Post-War International Relations of Europe. DR. LEE
 *SS354. Research in the History and International Relations of Europe. DR. LEE
 SS10. American History to 1840. DR. BILLINGTON
 *SS26. The American Revolution. DR. BILLINGTON
 *SS355. Research in the History of the United States. DR. BILLINGTON

ECONOMICS AND SOCIOLOGY

- SS1. Principles of Economics. DR. BRANDENBURG
 *SS5. Economic History of Western Europe. DR. BRANDENBURG
 *SS32. Research in Selected Economic Problems. DR. BRANDENBURG
 *SS27. Educational Sociology. DR. BALSAM
 *SS20. Contemporary Sociological Problems. DR. BALSAM
 *SS30. Research in Selected Sociological Problems. DR. BALSAM

ENGLISH

- SS2. Public Speaking. PROFESSOR ILLINGWORTH
 SS5. Stagecraft. PROFESSOR ILLINGWORTH
 SS126. Modern Continental Drama. PROFESSOR ILLINGWORTH

EDUCATION

- *SS20. Education for Character and Citizenship. DR. VERNON JONES
 *SS21. Educational Guidance and Adjustment. DR. VERNON JONES

THE DEGREE OF BACHELOR OF EDUCATION

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year normal school course or its equivalent is a prerequisite for admission to candidacy and a year of teaching experience is a prerequisite for the degree.

Candidates for this degree may earn the necessary residence credit by attendance at the Summer School or by enrolling in special courses for adults offered at the University during the regular academic year, or in such regular university courses as may be open to them.

Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.

A normal program for summer school students consists of three courses, each yielding two semester hours of credit. Two extension courses, each yielding two semester hours of credit, constitute a normal program for teachers in service. Credit toward the degree may also be earned through the Home Study Department and in connection with the field trips offered by the Summer School, but credit so earned may not be used to reduce the minimum residence requirement of 30 semester hours.

Courses (designated as "College Courses for Adults") are offered during the regular academic year on Saturday mornings and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in four years the equivalent of a year of study in residence.

The general administration of regulations applying to the degree of Bachelor of Education is lodged with the Committee on Extension Courses and Special Students, whose secretary acts as the administrative officer in dealing with students. The regulations applying to this degree are summarized in the following paragraphs.

1. **ADMISSION REQUIREMENTS.** The completion of a standard two-year course in a Massachusetts State Normal School or Teacher's College or the reasonable equivalent of such a course.

2. **REQUIREMENTS FOR THE DEGREE:**

a. At least one year's teaching experience.

- b. At least 30 semester hours of credit earned *in residence* at Clark University.
- c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.
- d. Requirements in particular subjects:
 - (1) Six semester hours in Psychology or Education taken after the completion of the admission requirements.
 - (2) Six semester hours of Laboratory Science taken after the completion of the admission requirements.
 - (3) Ten semester hours of English, which may be completed in whole or in part before admission.
 - (4) Ten semester hours of foreign language, which may be completed in whole or in part before admission.
 - (5) Twelve semester hours of Economics, Geography, Government History, or Sociology, at least six of which must be taken after the completion of the admission requirements.

3. STANDARD OF SCHOLARSHIP: The same standard of scholarship is required of candidates for this degree as for the degree of Bachelor of Arts.

4. ADVANCED STANDING:

- a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School or Teachers College. This may be reduced in special cases.
- b. Credit will be allowed for work done at other Universities, Colleges, or Normal Schools, subject to reasonable regulations.
- c. Not more than 30 semester hours of credit may be allowed for home study or extension courses. The acceptance of any work of this type is subject to the approval of the Committee on Extension Courses and Special Students. The "College Courses for Adults" offered by Clark University expressly for candidates for this degree are not subject to the restriction stated.

5. LAPSE OF CANDIDACY. Candidacy for the degree of Bachelor of Education terminates automatically whenever for a period of two years or more a candidate has failed to complete any courses in Clark University yielding credit toward the degree. A candidacy terminated under this rule may be renewed by action of the com-

mittee named above. Such renewal may involve a revision of allowances previously made, both in respect to total credit, and requirements in particular subjects.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Recorder.

SPECIAL COURSES FOR TEACHERS

With the needs of candidates for the degree of Bachelor of Education in mind, the University offers a series of college courses for adults designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region. These courses are also open to the general public. When occasion arises the subject of aims and methods of teaching is treated in some of these courses.

During the academic year 1933-34, the following courses have been given:

BIOLOGY

- | | |
|--|-------------|
| 1. Botany: The Identification of Plants. | MR. POTTER |
| 2. Fresh Water Biology. | MR. POMERAT |

ECONOMICS AND SOCIOLOGY

- | | |
|----------------------------------|-----------------|
| 1. Contemporary Social Problems. | MR. BRANDENBURG |
| 2. Modern Social Problems. | MR. BALSAM |

EDUCATION

- | | |
|--------------------------|-----------------|
| 1. Elementary Education. | MR. ILLINGWORTH |
|--------------------------|-----------------|

ENGLISH

- | | |
|-----------------------|-----------------|
| 1. The English Novel. | MR. ILLINGWORTH |
|-----------------------|-----------------|

FINE ARTS

- | | |
|---|----------|
| 1. The Arts in the Contemporary Scene. | MR. DODD |
| 2. America and the Arts in the Twentieth Century. | MR. DODD |

FRENCH

- | | |
|---|------------------|
| 1. Elementary Course. | MR. CHURCHMAN |
| 2. Second Year Course. | MR. DOUGHERTY |
| 3. French Customs and Culture. (Advanced.) | MR. L. L. ATWOOD |
| 4. Seminar. | MR. LARUE |
| 5. Supplementary Composition and Oral Work. | MR. LARUE |

CLARK UNIVERSITY

BULLETIN

111

MAY, 1934

COURSES OF COLLEGE GRADE FOR ADULTS

**Open to High School Graduates
of Both Sexes**

TO BE OFFERED IN THE
FIRST SEMESTER
1934-35

COURSES MEET ONCE A WEEK
AFTERNOON AND SATURDAY MORNING

employment will not hereafter be permitted register at any one time for courses carry more than four semester hours credit.

FOR FURTHER INFORMATION ADDRESS

LYDIA P. COLBY, *Record*

LIST OF COURSES

NOTE: Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at discretion of the instructor in charge.

Biology

1. BOTANY: THE IDENTIFICATION OF PLANTS. This course is designed to acquaint the student with methods used in the identification of flowering plants. The structure of the flower will be studied and the student, equipped with previous knowledge, will thus be able to use Keys by which different types of plants are determined. Emphasis will be placed upon our local flora.

Two hours, first semester

Fridays, 4:20—6:00

MR. PO

Room 206

2. FRESH WATER BIOLOGY. A study of aquatic organisms, both plant and animal, and their relations to the physical, chemical, and biological conditions of lakes and streams. The textbook for this course will be Ann Morgan's "Field Book of Ponds and Streams." (The course continues)

gh the year, but either semester may be taken
ately.)

Semester Hours

days, 4:20—6:00

MR. POMERAT

206

Economics and Sociology

CONTEMPORARY SOCIAL PROBLEMS. This course
treats important problems of recent or current
interest and seeks to understand them in the light
of economic and social policy; particular attention is given
to problems arising out of the New Deal. Monetary
banking issues, unemployment and relief pro-
grams, local and national taxation, trade reci-
pity and tariffs, farm relief, wage and price
control, labor organizations and company unions,
labor associations, codes, etc., are typical of topics
discussed. In so far as practicable, however, the
selection of topics will be determined by the interests
and desires of those electing the course. The work
is planned to meet the needs of teachers of any of
the social sciences, but it should be illuminating to
thoughtful persons who have an intelligent in-
terest in our economic and social life. Lectures,
assigned readings, discussions.

Semester Hours

days, 4:20—6:00

MR. BRANDENBURG

115

English

THE ARTS IN THE CONTEMPORARY SCENE. A
series of lectures on the new poetry, the new fic-
tion, the new biography, the new drama, contem-

porary work in etching, water-color and modern and modernistic architecture. The lectures on literature will be critical and biographical in nature, with readings. Those on the graphic arts will be illustrated with lantern slides.

From students desiring credit for the course there will be required special readings with reports oral and written.

Two Semester Hours

Saturdays, 10:00—11:40

MR. ILLINGWORTH

Room 119

2. THE ENGLISH NOVEL. The development of the English novel from its origin to the end of the nineteenth century. Reading and discussion of representative novels, study of influences, movements and critical standards presented in course by the instructor. Emphasis will be placed on the novelists of the nineteenth century.

Two Semester Hours

Wednesdays, 4:20—6:00

MR. ILLINGWORTH

Room 218

Fine Arts

See English 1.

French

1. ELEMENTARY COURSE. A general introduction to the language for beginners and for those who wish to renew their acquaintance with French. Most of the members of the course are found to have had previous training in the language, and additional instruction will be given in the early stages.

beginners, at no extra cost. The primary purpose of this course will be the rapid development of reading ability ("silent reading," without glosses or unconscious translation) and aural comprehension (of the spoken language); incidental attention will be given to active pronunciation, the fundamentals of grammar, simple composition, and very elementary oral work. It is hoped that it may be possible to use in this course for the first time a new book specially prepared to illustrate the above-described method and emphasis in French (Churchman-Atwood-Racine: *First Book in French: A Modern Approach*, Macmillan Co.)

Semester Hours

Days, 4:20—6:00

MR. CHURCHMAN

104

SECOND YEAR COURSE. Extensive reading in modern novel, short story, and play; a rapid review of elementary grammar, with practice in pronunciation and aural comprehension. Illustrative lectures intended to direct the student's attention to the cultural and artistic achievements of France. Open to all who have a knowledge of elementary French.

Semester Hours

Days, 4:20—6:00

MR. DOUGHERTY

218

ADVANCED COURSE: FRENCH CUSTOMS AND LITERATURE. The main purpose of this course is the study of French customs and the cultural conditions of France in the field of the arts, literature, science, etc. Some attention will also be paid to the geography and history of the country. Al-

though French will be the language of the classroom, it is not assumed that the student has already developed the ability to express himself perfectly in everyday speech. This will come with practice and those students who have studied French for two years should consider themselves satisfactorily prepared. Advanced French, when the content is changed, may be repeated once with full credit but not more than once.

Two Semester Hours

Tuesdays, 4:20—6:00

MR. LELAND L. ATWOOD

Room 104

4. SEMINAR. The Contemporary French novel and papers, usually in French, by members of the class and invited guests, on current topics of interest in French literature and civilization.

Open to the general public without fee or credit. Open also for credit to those who have had preparation similar to that given in course 3 and who pay the regular fee. May be taken for credit indefinitely, as the content is continually changing.

One semester hour

Wednesdays, 5:10—6:00

MR. LARSEN

Room 104

5. SUPPLEMENTARY COMPOSITION AND ORAL WORK. Designed especially to aid credit students in the Seminar in the preparation and criticism of papers there presented, but open to other interested and qualified persons. In addition to the preparation of papers, there will be a systematic study of pronunciation and phonetics and of special points in syntax (cf. Armstrong's *Syntax of the French*

Holbrook's *Living French*, Frazer and
r's *Complete French Grammar*).

semester hour

esdays, 4:20—5:10

MR. LARUE

104

German

ause of changes in the organization of the
tment of German no definite announcement
ding next year's courses can be made at the
t time. However, it is certain that two
s will be offered, one by Mr. Bosshard and
y Mr. Jantz, the new member of the Depart-
of German. Mr. Jantz' course may be a
al course on significant aspects of German
ation, for students with or without a knowl-
of German. Definite information will be
ble from the General Offices of Clark Uni-
r during the summer and autumn and in
ber will be announced in some of the Wor-
daily papers.

Geography

NCIPLES OF GEOGRAPHY. An introductory
e in geography, discussing the basic factors
vironment in relation to man.

MR. VAN VALKENBURG AND MR. C. E. JONES

semester hours

esdays, 4:20—6:00

120

STAFF

LELAND L. ATWOOD—Head of Department of Modern Languages, Worcester Polytechnic Institute.

H. M. BOSSHARD—Associate Professor of German.

S. J. BRANDENBURG—Professor of Economics and Sociology.

P. H. CHURCHMAN—Professor of Romance Languages.

L. H. DODD—Professor of Rhetoric.

D. M. DOUGHERTY—Assistant Professor of Romance Languages.

R. S. ILLINGWORTH—Associate Professor of English.

H. S. JANTZ—Assistant Professor of German.

E. O. LARUE—Formerly Professor in Assumption College.

C. M. POMERAT—Instructor of Biology.

DAVID POTTER—Associate Professor Biology.

FACULTY COMMITTEE IN CHARGE

S. J. BRANDENBURG

VERNON JONES

H. P. LITTLE

C. E. MELVILLE

D. C. RIDGLEY

P. H. CHURCHMAN, *Chairman*

CLARK UNIVERSITY

BULLETIN

115

DECEMBER, 1934

COURSES OF COLLEGE GRADE FOR ADULTS

**Open to High School Graduates
of Both Sexes**

TO BE OFFERED IN THE
SECOND SEMESTER
1934-35

COURSES MEET ONCE A WEEK
AFTERNOON AND SATURDAY MORNING

PROGRAM OF COURSES

MONDAY

4:20—6:00	ELEMENTARY FRENCH.	Church
4:20—6:00	SECOND YEAR FRENCH.	Dough

TUESDAY

4:20—6:00	ADVANCED FRENCH.	L. L. Atv
4:20—6:00	BIOLOGY.	Pomerat.
4:20—6.00	EDUCATION.	Illingworth.
4:20—6:00	GERMAN LITERATURE.	Jantz.
4:20—6:00	HISTORY.	Lee.

WEDNESDAY

4:20—5:10	FRENCH COMPOSITION AND WORK.	LaRue.
5:10—6:30	FRENCH SEMINAR.	LaRue.
4:20—6:00	GEOGRAPHY.	Van Valkenburg.

THURSDAY

4:20—6:00	SOCIOLOGY.	Balsam.
4:20—6:00	ELEMENTARY GERMAN.	Bosshar
4:20—6:00	BOTANY.	Potter.

SATURDAY

10:00—11:40	AMERICA AND THE ARTS IN TWENTIETH CENTURY.	Dodd
-------------	---	------

The Bulletin is published in January, February, March, May, June, October, November and December.

Entered as second-class matter, December 29, 1920, at Post Office at Worcester, Mass., under the Act of August 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

aim and Character of the Work

Worcester University will again offer during the second semester of the academic year 1934-35 a series of courses of college grade for students outside of the regular undergraduate body. Some of these courses, both in respect to content and time required, are particularly intended for teachers in the schools of Worcester and the surrounding area. Others, however, have no such limited application, but should appeal to the public on the basis of utility or general culture.

All of these courses are open to mature persons who, in the judgment of the instructor, are adequately prepared. Those who do not desire official records of work done are admitted as "auditors" and are not required to "matriculate." The courses are of college grade and may be used for credit by those who are formally enrolled as students for the degree of Bachelor of Education at Worcester University. Candidates for the degree of Bachelor of Arts may include these courses in their programs only when official authorization in advance is secured from the College Board. In similar circumstances candidates for the degree of Bachelor of Arts should secure the approval of their departments in each case.

NOTE: While these courses have always been available to high school graduates, they are this year particularly called to the attention of recent and recent graduates with the thought that because of existing economic conditions, there is an opportunity for further study of this sort

might be welcomed by those without employment or those who cannot at present attend college at a distance.

Date of Opening

Classes will meet for organization and the beginning of work during the week Feb. 4-9, 1935, on the day specified in the description of each course.

Attendance at the first meeting and promptness at all classes are highly desirable.

Registration and Charges

Registration involves the filling out of an enrollment card and payment of the fee. Students are not enrolled until the *enrollment card and the fee* for each course have been received by the Bursar. Those who desire to avoid the delay involved in making payments at the office of the Bursar may enroll by mail.

Tuition charges are \$8.00 for a course meeting one hour a week for one semester, and \$15.00 for a course meeting two hours a week for one semester.

The matriculation fee of \$5.00 is a charge for the opening of an official record in the office of the university Recorder. Matriculated students receive official certificates on which credit toward a degree may be granted at Clark University or elsewhere, subject to the standing regulations of the institution to which they may be presented.

Class lists for all courses will be closed February 23, 1935, and all fees are payable by noon of that date.

Enrollment after that date will be possible only in special cases, with the consent of Recorder.

late registration fee of one dollar for each of delay, or fraction thereof, will be charged in cases when the fee is paid after the above

quiries, applications, and registrations may be extended to by mail, to the convenience of concerned.

Standards, Credit, Terms of Admission

Any courses of college grade will be given, but not without the conventional preparatory work. Any student may be admitted to any course at the discretion of the instructor.

Courses will meet for periods of 50 to 100 minutes.

The usual hours for afternoon courses run for 100 minutes will be from 4:20 to 6:00; for Saturday and evening courses will be determined by the individual instructors.

Credit. When accepted for credit toward the degree of Bachelor of Education in this University, one semester hour will normally be granted for a one-hour course (50 minutes) meeting 16 times, and two semester hours for a two-hour course (100 minutes) meeting 16 times.

Regular outside preparation or collateral reading is expected in every course, except in the case of "auditors." This outside work will be determined in amount to the preparation expected in regular undergraduate courses, namely an

average of two hours per week for each semester hour of credit in the course. Those who prefer to attend without doing any outside work are welcome, but will be classed as "auditors."

In view of the outside work required it is obviously unwise for students who are otherwise busy to attempt many of these courses at the same time. By vote of the committee in charge of this work, persons who are in any full-time employment will not hereafter be permitted to register at any one time for courses carrying more than four semester hours of credit.

Biology

1. BOTANY: THE IDENTIFICATION OF PLANTS. The object of this course is to acquaint the student with methods used in the identification of flowering plants. The textbook used is *Gray's Manual of Botany*, 7th Edition.

Two semester hours

Thursdays 4:20—6:00

MR. POTTER

Room 206

2. FRESH WATER BIOLOGY. A study of aquatic organisms, both plant and animal, and their relations to the physical, chemical, and biological conditions of lakes and streams. The textbook for this course is Ann Morgan's *Field Book of Pond and Streams*.

Two Semester Hours

Tuesdays 4:20—6:00

MR. POMEROY

Room 206

Economics and Sociology

MODERN SOCIOLOGICAL PROBLEMS. This course consider such vital modern problems as those arising about The Family, Sexual Maladjustment, Crime, Juvenile Delinquency, Poverty and Unemployment, Insanity, Alcoholism, and Community Disorganization, in addition to any other problems in which the class shows sufficient interest.

We shall try to study these major social maladjustments from the point of view of Today's human needs and demands. We shall attempt, at the same time, to grasp the essentials of the various backgrounds of most of these sociological problems. The course is open to discussion leaders, social workers, teachers and all others really eager for substantial foundations upon which they may base their own thinking about vital problems of human relationships, especially those of Today. There will be lectures, discussions, readings and, if practicable, at least one visit to a local institution which is grappling, practically, with one or more of these significant problems.

semester hours

days, 4:20 to 6:00

MR. BALSAM

115

Education

ELEMENTARY EDUCATION. Emphasis in the course will be placed upon the following topics: The nature and function of elementary education; the child and society, compulsory education; major

factors affecting instruction in the elementary school; the curriculum; general principles of educational method; the problem of variability; organization of instruction; some problems of administration; the handicapped child. (This course will not be given during the summer session.)

Two semester hours

Tuesdays, 4:20—6:00

MR. ILLINGWOOD

Room 102

English

AMERICA AND THE ARTS IN THE TWENTIETH CENTURY. A companion course to The Contemporary Scene in the Arts given the first semester. Within the first three decades of this century have produced in America in the way of novel, short story, biography, play, poetry and essay. Illustrated lectures also on the architecture, sculpture and painting of the period.

The course may be taken both by those who wish only to attend the lectures in the capacity of auditors and by those who wish also to do assigned readings and written reports for credit.

Two semester hours

Saturdays 10:00—11:40

MR. DODD

Room 119

French

1. ELEMENTARY COURSE. A continuation of the general introduction to the language for those who

the work of the first semester, and for others may wish to renew their acquaintance with Open to new registrants who have had such as a year of French. For any who find it somewhat difficult, extra instruction will be provided in the early weeks of the semester, without extra charge.

This course will continue to consider its primary purpose to be the rapid development of direct reading ability ("silent reading", without conscious translation); careful translation and comprehension will also receive some attention, and elementary composition and oral drill will be undertaken in the spring.

Semester hours

Days, 4:20—6:00

MR. CHURCHMAN

104

SECOND YEAR COURSE. Continued reading in modern essay, novel, and play. Practice in pronunciation and aural comprehension. Complete review of elementary grammar in Schwartz, *Grammar Review*. Open to students who satisfactorily completed five terms of high school or three terms of college French.

Semester hours

Days, 4:20—6:00

MR. DOUGHERTY

218

ADVANCED COURSE: FRENCH CUSTOMS AND LITERATURE. The main purpose of this course is the study of French customs and the cultural contribu-

tions of France in the field of the arts, literature, science, etc. Some attention will also be paid to the geography and history of the country and to practical exercises to develop facility in the use of the spoken language. Although this course continues the work of the first semester, new students who have studied French for two years should have no difficulty in mastering the work.

Two semester hours

Tuesdays, 4:20—6:00 MR. LELAND L. ATWOOD
Room 104

4. SEMINAR. The Contemporary French movement, lectures and papers, usually in French, by members of the class and invited guests, on current topics of interest in French literature and civilization.

Open to the general public without fee or credit. Open also for credit to those who have had previous preparation similar to that given in course 3 or who pay the regular fee. May be taken for credit indefinitely, as the content is continually changing.

One semester hour

Wednesdays, 5:10—6:00 MR. LELAND L. ATWOOD
Room 104

5. SUPPLEMENTARY COMPOSITION AND REVISION WORK. Designed especially to aid credit students in the Seminar in the preparation and criticism of papers there presented, but open to other interested and qualified persons. In addition to the preparation of papers, there will be a systematic study of pronunciation and phonetics and of special problems.

tax (cf. Armstrong's *Syntax of the French*
Holbrook's *Living French*, Fraser and
s *Complete French Grammar*).

semester hour

days, 4:20—5:10

MR. LARUE

104

Geography

THE. A practical course on the various
of weather: of general interest to all who
understand weather and of special value
hers who have to explain it in class.

semester hours

days, 4:20—6:00

MR. VAN VALKENBURG

117

German

LEMENTARY COURSE. This course is designed
e practical training in German to persons
tle or no previous training in the language.
es a careful study of the grammatical funda-
and the relationship between English and
a, and uses the spoken word freely for the
ion of a limited active vocabulary. Read-
easy material. New students may enter in
ond semester.

semester hours

ays, 4:20—6:00

MR. BOSSHARD

06

2. INTERMEDIATE COURSE. This course of oral and written composition, stressing the use of modern German. The reading material includes prose selections and lyrics of modern German literature. A continuation of "Elementary German."

Two semester hours

To be offered in 1935-6.

MR. BOSS

3. INTRODUCTION TO GERMAN LITERATURE. Two year course. Extensive conversation and composition in conjunction with the reading of Fleissner's *Deutsches Literaturlesebuch* during the first semester, to be followed in the second semester by reading of select works of Goethe and Schiller. New students may enter in the second semester.

Two semester hours

Tuesdays, 4:20—6:00

MR. J

Room 106

4. GERMAN CULTURE. An illustrated lecture course aiming to sketch the development of German civilization, its history, folk-lore, art, music, literature from the origins to the present day. Lectures and collateral reading will be in English; therefore knowledge of the German language not be a prerequisite.

Two semester hours

To be offered 1935-6

MR. J

History

NEW GOVERNMENTS IN EUROPE. A study

rule in Italy, Nazi Germany, and the
structure of Soviet Russia with some at-
tention to the problem of democracy vs. dictator-
ship; its effects on other countries such as France,
and the Baltic, and central European states.
The report will be made not merely to describe
political forms, but also to understand why
they came into existence and to estimate
their relative significance in European and world

The course will be conducted by means
of lectures, required readings, discussions and
writing. Basic text: *New Governments in Europe*.
Buell, ed. (New York, 1934).

Semester hours

Days, 4:20—6:00

MR. LEE

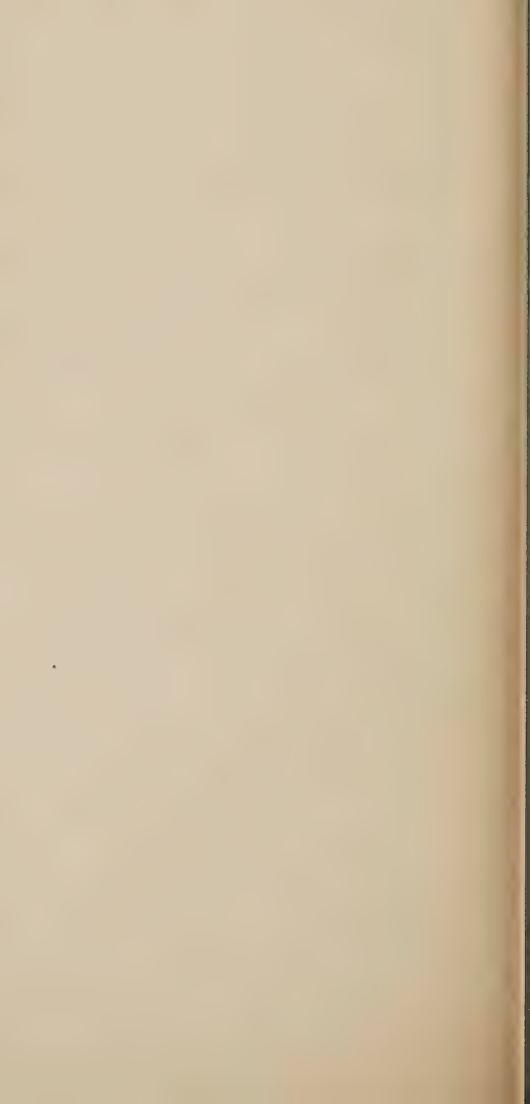
15

STAFF

- LELAND L. ATWOOD—Head of Department of
ern Languages, Worcester Polytechnic
tute.
- LOUIS BALSAM—Assistant Professor of Sociology
- H. M. BOSSHARD—Associate Professor of German
- P. H. CHURCHMAN—Professor of Romance
guages.
- L. H. DODD—Professor of Rhetoric.
- D. M. DOUGHERTY—Assistant Professor of
mance Languages.
- R. S. ILLINGWORTH—Associate Professor of English
- H. S. JANTZ—Assistant Professor of German.
- E. O. LARUE—Formerly Professor in Assumption
College.
- D. E. LEE—Associate Professor of Modern European
History.
- C. M. POMERAT—Instructor in Biology.
- DAVID POTTER—Associate Professor of Biology
- SAMUEL VAN VALKENBURG—Associate Professor of
Climatology and Regional Geography.

FACULTY COMMITTEE IN CHARGE

H. M. BOSSHARD
S. J. BRANDENBURG
VERNON JONES
H. P. LITTLE
C. E. MELVILLE
P. H. CHURCHMAN, *Chairman*



GEOGRAPHY

1. Principles of Geography. MESSRS. JONES AND VAN VALKENBURG
2. Weather. MR. VAN VALKENBURG

GERMAN

1. Elementary Course. MR. BOSSHARD
2. Introduction to German Literature. MR. JANTZ

DEPARTMENTAL ANNOUNCEMENTS

Beginning September, 1934, units of instruction for undergraduates are listed as "courses" and fractions of a "course." A "course" normally meets for class room or laboratory exercises three or four times weekly throughout the year. A "half course" normally meets with the same frequency throughout one semester. Classes meeting twice weekly normally yield credit for one third of a course in each semester.

Each unit of undergraduate instruction as listed below constitutes one "course" unless its value as a fractional course or a multiple course is indicated.

Advanced courses, not primarily for undergraduates, are announced with a statement of the number of weekly meetings. Undergraduates who are permitted to enroll in such courses should carefully check with the Recorder to avoid any misunderstanding in regard to the equivalent number of "courses" represented by their programs.

Courses offered by the several departments are listed under three headings:

1. PRIMARILY FOR UNDERGRADUATES, designated by numbers beginning with the figure (1).
2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES, designated by numbers beginning with the figure (2).
3. PRIMARILY FOR GRADUATE STUDENTS, designated by numbers beginning with the figure (3).

Brackets [] about the announcement of a course indicate that the course is not offered during the current year.

Credit for the first semester alone is given in all courses except in cases where a department, by a note following the description of the course, specifically reserves the right to withhold credit until the second semester of the course is satisfactorily completed.

Any course may be entered at the beginning of the second semester, with the consent of the instructor, by students who are prepared to take up the work of the course at that time.

DEPARTMENT OF ANCIENT LANGUAGES

PROFESSOR BRACKETT

For a major in ancient languages the requirement is twenty-four semester hours from the courses described below.

COURSES IN GREEK

[11. **First Year Course.** Divisible only in special cases with the approval of the department and of the College Board.

Open to freshmen.

Through the year.

MR. BRACKETT]

12. **Xenophon, *Anabasis*; Homer, *Iliad*.** About ten weeks at the beginning of the year are devoted to reading selections from the *Anabasis*, the principal aim being to increase the student's facility in translation. The remainder of the year is devoted to the *Iliad*.

Open to freshmen.

Through the year. M. W. F., 9.

MR. BRACKETT

[13. **The Greek Drama.** Aeschylus, *Prometheus Bound*; Sophocles, *Antigone*; Euripides, *Medea*.

Through the year.

MR. BRACKETT]

[16. **Greek and Roman Drama in English.** Selected plays of Aeschylus, Sophocles, Euripides and Aristophanes in Greek drama; Plautus, Terence and Seneca in Roman drama.

Through the year.

MR. BRACKETT]

Greek 17. Greek History. This course will cover the period from the beginnings of Greek history to 146 B.C.

Open to freshmen with the consent of the instructor.

Through the year. M. W. F., 11.

MR. BRACKETT

COURSES IN LATIN

1. PRIMARILY FOR UNDERGRADUATES

11. **First Year Course.**

Open to freshmen.

Through the year. T. Th. S., 11.

MR. BRACKETT

12. **Cicero,** First Oration against Verres, selected Epistles; Selections from **Catullus; Horace,** selected Epodes and Odes.

Open to freshmen.

Through the year. T. Th. S., 9.

MR. BRACKETT

[15a. **Selections from Caesar and Cicero.** This course is open to students who have had Latin 11 or its equivalent. The principal aim is to increase the student's ability to read Latin.

Half course, first semester.

MR. BRACKETT]

[15b. **Selections from Ovid's *Metamorphoses*.**

Half course, second semester.

MR. BRACKETT]

[16a. **Selections from Lucretius, *De Rerum Natura* and Cicero, *Tusculan Disputations*.**

Half course, first semester. M. W. F., 9.

MR. BRACKETT]

[18b. The Teaching of Latin; Latin Composition.

Half course, second semester. M. W. F., 9. MR. BRACKETT]

[17. Roman History. This course will deal with the history of Rome from the earliest period to the downfall of the Western Roman Empire, with special emphasis upon those aspects of the history which have permanently influenced western civilization.

Through the year. MR. BRACKETT]

DEPARTMENT OF BIOLOGY

PROFESSOR HOAGLAND, ASSOCIATE PROFESSOR POTTER,
MR. POMERAT.

Also beginning September, 1935, ASSISTANT PROFESSOR PROSSER
Also PROFESSOR HUNTER AND ASSISTANT PROFESSOR GRAHAM
*of the Department of Psychology**

GENERAL STATEMENT

The Department of Biology is on the second floor of the Main Building of the University. The laboratories are well-equipped for the courses offered and contain special equipment for advanced investigations in physiology. In addition, annual funds are available for purchasing and building apparatus as it may be required. The University Library contains complete files of the more important periodicals and reference works. Certain assistantships, fellowships and scholarships are available from time to time.

UNDERGRADUATE WORK

Biology 11 presents a comprehensive view which is prerequisite to all other courses in the department. Courses 12, 14, 15a, 16b, and 17b are planned to give the undergraduate a working acquaintance with fundamental aspects of zoölogy and botany. Courses 18 and 200 introduce the student to the behavior of living systems.

An undergraduate majoring in biology is expected to complete at least:

1. Biology 11 and eighteen semester hours in advanced courses, including Biology 12 and 18. Attendance at weekly discussion groups is also expected.

*Advanced courses in Psychology given by Professor Hunter and Professor Graham may, with the permission of the chairman of the department, be credited as courses in Biology.

2. Mathematics 111.
3. Physics 11.
4. Chemistry 11.
5. French or German to an amount sufficient for a good reading knowledge.

Undergraduates who *major* in biology should *minor* in chemistry or in physics. Biology 200, preferably taken in the senior year, brings to a biological focus, in the study of living organisms, many chemical and physical principles.

The departments of chemistry, biology and physics recommend the following program for pre-medical students. These recommendations do not in any way affect the general requirements of the College which apply to all students in the College.

Freshman Year

Chemistry	10 or 11	General Chemistry
Biology	11	General Biology
English	11	
A course in "division B"		
A modern language		
Mathematics 111		

NOTE: Students who are not prepared to carry a program of six courses successfully, will be forced to postpone either Biology or Chemistry until the second year, with consequent readjustments in succeeding years.

Sophomore Year

Chemistry	13	Qualitative Analysis
Biology	12	Comparative Anatomy
A course in "division B"		
A modern language		
Fine Arts (a required course, 2nd semester only)		

NOTE: 1. If necessary, a petition to postpone Fine Arts until the Junior year will be granted by the College Board.

2. A second course in college mathematics is strongly recommended.

Junior Year

Chemistry	14, first semester	Quantitative Analysis
Chemistry	19, second semester	Physical Chemistry
Biology	18	Comparative Physiology
Physics	11	General Physics
English		

An elective to complete any general requirements not already met in full.

Senior Year

Chemistry	15	Organic Chemistry, lectures
Chemistry	110	Organic Chemistry, laboratory
Biology	200	Bio-physics
A second advanced course in Biology		
An elective		

GRADUATE WORK

By action of the Board of Trustees, the Department of Biology was reorganized on a full graduate basis beginning in September, 1931. Students whose records are approved by the department may be admitted by the Graduate Board for work leading to the degree of Master of Arts in biology or to the degree of Doctor of Philosophy in physiology. The general plan of organization involves a relationship between the Department of Psychology and the Department of Biology whereby students in either department may be credited with specific advanced courses in the other. Certain advanced courses in the departments of physics, chemistry and mathematics may also be credited in the Department of Biology.

The general requirements for the master's degree and for the doctorate are stated elsewhere in this catalog. In addition to the general requirements, the department has a supplementary requirement that an additional copy of each doctor's dissertation must be deposited with the department.

The analysis of fundamental activities of living organisms is necessarily undertaken upon the basis of physico-chemical principles. For this reason a foundation in physics, chemistry and mathematics as well as in biology is essential for advanced work in physiology. Physiology bears a relation to medicine similar to that of physics to engineering and in recent years has developed especially rapidly as a fruitful field of investigation.

COURSES IN BIOLOGY

It should also be borne in mind that with certain exceptions many of the courses listed in Biology are given in alternate years. The special course sheets given out at the time of registration should be consulted.

1. PRIMARILY FOR UNDERGRADUATES

11. General Biology. An introduction to the fundamental principles and problems of biology. Indivisible course.

Open to freshmen.

Through the year. M. W. F., 11; W., 2.

MR. POTTER AND MR. POMERAT

12. Vertebrate Zoology. A study of the morphology of the vertebrates from a comparative standpoint which traces the evolution of animals from fish to mammals. Lectures and laboratory work.

Through the year. W. F., 9; W. F., 2.

MR. POMERAT

13. Seminar in General Biology. Credit is not given for this course. All students in the department are invited to attend and to participate.

STAFF OF THE DEPARTMENT

14. Botany. First semester, morphology and taxonomy of the lower plants. The laboratory work consists of a critical study of types from the most important natural families.

Second semester, systematic botany of the higher plants.

Prerequisite, Biology 11, first semester.

Through the year. Tu. Th. S., 11; Th., 2.

MR. POTTER

[**15a. Invertebrate Zoology.** A detailed study of the structure, life history, habits, and distribution of invertebrate types. Two lectures and two laboratory periods per week.

Half course, first semester.

MR. POMERAT]

[**16b. Histology.** A comprehensive course dealing with tissue structure. Emphasis is placed on the study of mammalian tissues. Two lectures and two laboratory periods per week.

Half course, second semester.

MR. POMERAT]

17b. Embryology. A consideration of the fundamentals of embryology. Two lectures and two laboratory periods per week.

Half course, second semester.

MR. POMERAT

[**18. Comparative Physiology.** The principal types of functions in living systems as they occur in animals and plants. Biology 11 is a prerequisite and Biology 12 is advised. Two lectures and two laboratory periods per week.

Through the year. Tu. Th., 11 and two laboratory periods.

MR. PROSSER]

A new course to be offered in 1935-36.

[**160. Microscopical Technique.** The principles of fixing, sectioning and staining tissues will be worked out in the laboratory.

Hours and credit to be arranged.

MR. POTTER]

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

200. General Physiology (Biophysics). Open to students who have passed Biology 11 and 12 or their equivalents and who satisfy the instructor as to their preparation in physics, chemistry and mathematics. Chemistry 11, Physics 11, and Mathematics 111 or their equivalents are prerequisite. Biology 18 is strongly advised.

The course is designed to give the student an acquaintance with the major problems of physiology. The nature of living substance is considered in terms of its component materials and their physico-

chemical properties. Three lectures and two laboratory periods per week.

Double course, through the year. M. W. F., 11, and laboratory periods. MR. HOAGLAND

[201a. **Parasitism.** A general introduction to the parasitic habit as exhibited by bacteria, fungi, protozoa, worms, and insects. Two lectures and two laboratory periods per week.

Half course, first semester. MR. POMERAT]

202a. **Physiology of Reproduction.** A discussion of the problems of sexual periodicity, mating behavior, hormonal control of reproduction processes, the biology of the testes and the ovary.

Half course, first semester. Hours to be arranged. MR. POMERAT

202b. **Genetics.** An introduction to the principles of genetics.

Half course, second semester. MR. POTTER

203. **Special Problems.** Advanced semi-independent study of an approved topic under the direction of a member of the staff.

Hours and credit to be arranged. STAFF OF THE DEPARTMENT

[204. **Seminar in the Structure and Function of Central Nervous Systems.** Material from all levels of animal organizations will be considered.

Two hours, through the year. Hours to be arranged.

A new course to be offered in 1935-36. MR. PROSSER]

205. **Seminar in Experimental Biology.** Credit is not given for this course. All students in the department are invited to attend and to participate.

STAFF OF THE DEPARTMENT

Psychology 202. Sense Organ Functions. (For description, see announcement of Department of Psychology.)

Two hours. MR. GRAHAM]

[**Psychology 203. Reflex Activity.** (For description, see announcement of Department of Psychology.)

MR. GRAHAM]

Psychology 206. Animal Behavior. (For description, see announcement of Department of Psychology.)

MR. HUNTER

[**Psychology 207a. The Learning Process.** (For description see announcement of Department of Psychology.)

MR. HUNTER]

3. PRIMARILY FOR GRADUATE STUDENTS

306. **Mechanisms of Reaction (seminar).** Mechanisms underlying the behavior of organisms are considered from the standpoint of experimental physiology.

Two hours, through the year. MR. HOAGLAND

307. Readings in Physiology. Open to candidates for the doctorate in physiology. Reading and tutorial conferences on special topics. Credit to be arranged. MR. HOAGLAND

In 1935-36, MR. HOAGLAND and MR. PROSSER

308. Research. Dynamics of Vital Phenomena. Credit to be arranged. MR. HOAGLAND

Psychology 305. Research in Animal Behavior and Sensory Physiology. (For description, see announcement of Department of Psychology.) MESSRS. HUNTER AND GRAHAM

[Psychology 315. Quantitative Interpretation of Experimental Data. (For description, see announcement of Department of Psychology.) MR. GRAHAM]

DEPARTMENT OF CHEMISTRY

PROFESSOR MERIGOLD, PROFESSOR WARREN, ASSOCIATE PROFESSOR
BULLOCK

Courses in chemistry fall into two groups:

First, those primarily for undergraduates. They furnish a foundation for professional work in chemistry or medicine, and are suitable for students desiring some knowledge of the subject as part of their general education.

Second, those, primarily for graduates, leading to advanced degrees.

UNDERGRADUATE WORK

Students who intend to become professional chemists or to study for an advanced degree in chemistry should *major* in chemistry and *minor* in physics, or take at least two years' work in that subject.

They are advised to conform as closely as possible to the schedule given below.

First year: Chemistry 10 or 11; Mathematics 110 or 111; English 11; social science (Division B) and foreign language.

Second year: Chemistry 13 and 14; Physics 11; English; Fine Arts; and a continuation of work in foreign language.

Third year: Chemistry 15, 110, and 19; Mathematics 12; an elective.

Fourth year: Five courses, chosen from the following: Chemistry 214, 215, and 208; Physics 14 and 15; an elective. A choice, with reference to future work, should be made after consultation with the chemistry staff.

Those students who intend to enter the field of secondary education should acquaint themselves with the requirements in "education" of state and local licensing boards and prepare to meet these requirements. This may necessitate the omission of certain courses in chemistry scheduled for the third and fourth years.

Students intending to study medicine should consult the statement regarding pre-medical training in the announcement of the Department of Biology.

Attention is called to laboratory fees and breakage deposits listed under the general heading "Laboratory Fees and Deposits."

GRADUATE WORK

The Department of Chemistry provides graduate students with training in the fundamental principles of chemistry sufficiently broad to prepare them adequately for a scientific career.

Requirements for advanced degrees cannot be met merely by pursuing a course of studies or by carrying on an investigation. Hence no definite course of graduate studies is outlined. Ordinarily, completion of the program outlined above will be a prerequisite for graduate work in chemistry.

All graduate students are required to have an adequate reading knowledge of French and German. This requirement applies to candidates for either the master's degree or the doctor's degree.

Students registered for advanced degrees are expected to spend not less than eighteen hours per week in the laboratory. This may include special laboratory work in organic, inorganic, and physical chemistry.

Graduate scholarships and fellowships are available to students in this department.

COURSES IN CHEMISTRY

1. PRIMARILY FOR UNDERGRADUATES

10. Elementary Chemistry. Intended primarily for students who have not previously studied chemistry. Equivalent to course 11 as preparation for advanced courses. Divisible only by consent of the instructor.

Open to freshmen who have not studied chemistry in high school. Through the year. Tu. Th. S., 9; Th., 2. MR. BULLOCK

11. General Chemistry. Chiefly inorganic. Systematic study of the elements and their principal compounds and the fundamental laws and theories of chemistry. Three lectures and three hours of laboratory work per week. Divisible only by consent of instructor.

Open to freshmen who have studied chemistry in high school.

Through the year. M. W. F., 11; M., 2. MR. MERIGOLD

13. Qualitative Analysis, Basic and Acid. Chiefly laboratory work, nine hours per week. Occasional lectures, and recitations upon the theories involved. Prerequisite, course 11 or its equivalent. Through the year. Tu. F., 2. MR. BULLOCK

14. Quantitative Analysis. Chiefly laboratory work, with occasional lectures, recitations, and problems. Six hours of laboratory work, and one lecture per week. Prerequisite, course 13. Through the year. Tu., 3:30; Th., 2. MR. MERIGOLD

15. Elementary Organic Chemistry. Lectures on the fundamental principles of organic chemistry. Prerequisite, course 11 or its equivalent. Course 13 is also recommended.

Through the year. M. W. F., 8. MR. WARREN

19. Elementary Physical Chemistry. Lectures, recitations and problems on the theoretical aspect of chemistry including gases, liquids, solids, solutions and equilibria. Prerequisite, Chemistry 13.

Through the year. Tu. Th. S., 10. MR. BULLOCK

110. Organic Synthesis and Analysis. Laboratory work in the preparation of typical organic compounds. Course 110 should be taken, if possible, in connection with course 15. Nine hours of laboratory work per week. Open only to students who take or have taken courses 13, 14 and 15.

Through the year. M. Th., 2. MR. WARREN

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

208. Physical and Inorganic Chemistry. Lectures and laboratory work, nine hours per week. Prerequisites, Mathematics 101 or 12, Chemistry 14 and 19. Required for advanced degrees in chemistry.

Through the year. F., 2, and additional hours to be arranged.

MR. BULLOCK

212b. History of Chemistry. Outline of the historical development of the science, and the relation of chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis. Open to graduate students and seniors who take or have taken Chemistry 15 and 19 or equivalent courses. Required for advanced degrees in Chemistry.

Half course, second semester. Tu. Th., 11. MR. MERIGOLD

214. Advanced Quantitative Analysis (including gas analysis). Prerequisite, course 14. Lectures and laboratory work, nine hours per week.

Through the year. Tu. Th., 2. MR. MERIGOLD

215. Advanced Organic Synthesis. The preparation of more difficult organic compounds. Prerequisite, course 110.

Through the year. M. Th., 2, and an additional laboratory period.
MR. WARREN

216. Journal Reading. Practice in reading current chemical literature. Required of all graduate students.

Two hours, through the year. Tu. F., 4. MR. WARREN

[217. Intermediates and Dyestuffs. Methods of preparation, properties and uses of the commoner intermediates followed by a study of typical dyestuffs. Lectures, collateral reading, reports and thesis. Open to graduate students and undergraduates who take or have taken course 15.

Through the year. MR. BULLOCK]

3. PRIMARILY FOR GRADUATE STUDENTS

32. Advanced Theoretical Chemistry. Discussion of the principles underlying the transformation of matter and of the conditions for equilibrium in various systems.

Three hours, through the year. Tu. Th. F., 9. MR. MERIGOLD

33. Advanced Organic Chemistry. Lectures on selected subjects in organic chemistry.

Two hours, through the year. Tu. Th., 8. MR. WARREN

35. Seminar. Staff and graduate students. Reports on research work being carried on in the laboratory and report and discussion of recently published work in related fields.

Once a week, through the year. W., 5.

STAFF OF THE DEPARTMENT

314. Research in Physical and Inorganic Chemistry.

MR. MERIGOLD

315. Research in Organic Chemistry.

MR. WARREN

318. Research in Organic and Physical Chemistry.

MR. BULLOCK

DEPARTMENT OF ECONOMICS AND SOCIOLOGY

PROFESSOR BRANDENBURG, ASSOCIATE PROFESSORS MAXWELL
AND LUCAS, ASSISTANT PROFESSOR BALSAM

The first aim of the department is to give students some systematic knowledge of the organization and functions of our economic and social order. But this cultural objective is not exclusive. Many of the courses in economics have a vocational aspect and should receive the attention of students looking forward to business or professional careers.

The courses in sociology provide training in the fundamental concepts and methods of the science and lead the student toward the solution of problems faced by every citizen in his social relationships. They aim to stimulate appreciation by the student of the work of specialists in many fields and of their contributions to problems of human welfare.

Economics 11 is a prerequisite to all other courses in economics, with the possible exception of Economics 14a and 14b, and is required of all majors in the department. Sociology 11 is a prerequisite to further work in sociology. The more advanced courses in the department are alternated so as to permit wider election by upper-classmen. Undergraduates majoring or minoring in the department are urged to take the introductory course in their sophomore year.

GRADUATE WORK

The department regularly offers courses leading to the master's and doctor's degrees. Students expecting to enter upon advanced work should have creditably mastered basic courses in the field equivalent at least to the ordinary undergraduate *major*, i.e., twenty-four semester hours; those whose preparation is inadequate should expect to make good the deficiency before proceeding to study for a higher degree.

A sufficient range of courses will be offered in cycles of two or three years so that graduate students may be adequately prepared for candidacy for the doctorate in this department. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work; undergraduate students in courses of the intermediate group will be expected to do work of substantially graduate caliber.

Fellowships, scholarships, and other aids are available to students in the department; also a limited number of assistantships, carrying a modest stipend, are awarded to worthy students.

Attention is directed to closely allied courses offered in geography, history and international relations, and psychology.

COURSES IN ECONOMICS

1. PRIMARILY FOR UNDERGRADUATES

10. Social Science Survey. An introduction to methods and materials of the social sciences preparatory to later work in these fields. Indivisible course.

For freshmen; others will receive reduced credit.

Through the year. M. W. F., 9.

MR. BRANDENBURG

11. Principles of Economics. An introduction to the fundamental economic principles, together with a study of the practical application of these principles in the problems of American life. Economics 10 is a desirable preliminary course.

Indivisible course.

Through the year. Tu. Th. S., 10.

MR. LUCAS

13. Money, Banking, and the Business Cycle. Indivisible course
Through the year. M. W. F., 9.

MR. MAXWELL

14a. Economic History of Western Europe since 1700.

Half course, first semester. M. W. F., 10.

MR. MAXWELL

14b. Economic History of the United States.

Half course, second semester. M. W. F., 10.

MR. MAXWELL

[15a. Public Finance.

Half course, second semester. M. W. F., 10.

MR. MAXWELL]

[16b. Economic Statistics. Primarily for students of Economics and Sociology.

Half course, first semester. M. W. F., 10.

MR. MAXWELL]

[117. Principles of Accounting. The organization and use of financial records, with emphasis on their interpretation rather than on the technique of procedure.

Indivisible course.

Through the year. Tu. Th., 9; Th., 2-4.

MR. LUCAS]

18. Business Organization and Business Finance. A unified year's work in the structure of modern industry, the financial practices of corporations, and the problem of social control. The second half of this course is open only to students who have completed the first half.

Through the year. Tu. Th. S., 9.

MR. LUCAS

To be omitted in 1935-36.

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

[22. Labor Problems.

Through the year. M. W. F., 11.

MR. BRANDENBURG]

210a. Economic and Social Reform. The historical and critical study of various programs. Prerequisite, Economics 14.

Half course, first semester. M. W. F., 11.

MR. BRANDENBURG

211b. Contemporary Reform Movements. A continuation of Economics 210a into special fields for selected students. Prerequisite, Economics 210a.

Half course, second semester. M. W. F., 11.

MR. BRANDENBURG

[25b. Problems in Public Finance.

Half course, second semester.

MR. MAXWELL]

27a. International Trade and International Finance. The nature, theoretical basis, methods of financing, and governmental control of the international movement of goods. Economics 13 desirable.

Half course, first semester. Tu. Th. S., 11. MR. LUCAS

28. Research in Selected Economic Problems. Limited enrollment; consent of the instructor required.

Credit and hours to be arranged. MR. LUCAS

29b. Economics of Transportation. History and present status of rail, water, and highway transport; rate-making; public regulation, government operation, and chief problems of the present.

Half course, second semester. Tu. Th. S., 11. MR. LUCAS

3. PRIMARILY FOR GRADUATE STUDENTS

31. International Economic Policies.

Two hours, through the year. M., 7-9. MR. BRANDENBURG

38a. History of Economic Thought to the End of the 18th Century.

Three hours, first semester. M. Th., 4:30-6. MR. MAXWELL

38b. Modern Economic Thought. Attention will be given rather to the history of thought than to analytical criticism of specific doctrines.

Three hours, second semester. MR. MAXWELL

[39. Value and Distribution.

Three hours, through the year. M. W., 4-5:30. MR. MAXWELL]

311. Seminar in Economics and Sociology. Fortnightly round-table on investigations by members of the Seminar. Occasional outside speakers. All graduate students in the department are expected to attend.

Second and fourth Thursdays of each month at 7:30.

THE STAFF OF THE DEPARTMENT

COURSES IN SOCIOLOGY

The introductory course, Sociology 11, is prerequisite to all other courses in sociology. Students whose special interests are in sociological fields should note the departmental statement preceding this announcement of courses.

1. PRIMARILY FOR UNDERGRADUATES

(See also Economics 11)

11. Principles of Sociology. What is society, and what are its fundamental inter-relationships? In attempting to answer these questions the course gives a comprehensive view of sociology as a social-science, and serves as a solid base for further study in the field. Individual investigations.

Through the year. Tu. Th. S., 8.

MR. BALSAM

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

(See also Economics 22, 210a, and 211b.)

21a. The Family. The development of, and changes in the family, from earliest records to the present. Various theories will be critically examined. Especial emphasis will be given to marriage and family-relationships of today.

Half course, first semester. Tu. Th. S., 9.

MR. BALSAM

[22a. Sociology of City Life. Especially intended for students who may spend most of their lives in city environment, and who wish to have a scientific understanding of what cities mean and what they do to and for people. Individual investigations of city problems in and about Worcester.

Half course, first semester.

MR. BALSAM]

24a. Social Institutions. Language, Art, War, Politics, Religion, Education, and other social institutions will be examined in their inter-relationships to the rest of society. Comparisons between primitive and civilized institutions, and between those of The Occident and The Orient will be made.

Half course, first semester.

MR. BALSAM]

25a. Social Pathology. Criminals, prostitutes, paupers, the insane, disorganized families etc. will be studied as types of social maladjustment in an effort to discover what social forces are involved, and what remedies may be effective. Field trips.

Half course, first semester. Tu. Th. S., 11.

MR. BALSAM

26b. Criminology. Crime, criminals and criminal justice, past and present; their extent, nature, causes and treatment. Field trips. Seminar hours to which practical crime-experts have been invited.

Half course, second semester. Tu. Th. S., 11.

MR. BALSAM

27b. (Education 27b). Educational Sociology. Education (organized and unorganized) and intellectual leadership in their important relationships to other social institutions such as politics, government, the family, religion, patriotism, depressions, economic institutions etc. Education in the U. S. as it is and as it may be, will receive particular attention.

Half course, second semester. Tu. Th. S., 9.

MR. BALSAM

3. PRIMARILY FOR GRADUATE STUDENTS

(See also Economics 311.)

[31a. Sociological Theories from Confucius to Comte. A critical examination of the sociological ideas of the major social theorists, in an attempt to evaluate their findings and conclusions.

Three hours, first semester, by arrangement.

MR. BALSAM]

[31b. **Sociological Theories Since Auguste Comte.** A critical examination of the ideas of the major sociologists since Comte, in an attempt to evaluate their findings and conclusions.

Three hours, second semester, by arrangement. MR. BALSAM]

32. **Sociology Seminar.** For students of graduate standing working upon research projects of their own. Credit granted upon the basis of work done.

Research, readings, and consultations. MR. BALSAM

33. **Research Work in Sociology.** Capable students who offer acceptable proof of ability to work by themselves under guidance of the department, will be encouraged to do so. Credit granted upon the basis of work done. Research, readings and frequent consultations according to individual needs.

Hours individually arranged, through the year. MR. BALSAM

COURSES IN EDUCATION

FACULTY COMMITTEE ON COURSES IN EDUCATION

ASSOCIATE PROFESSOR JONES, *Chairman*, PROFESSOR CHURCHMAN,
PROFESSOR RIDGLEY, ASSOCIATE PROFESSOR ILLINGWORTH

By vote of the Faculty a standing committee on "courses in education" has been established to "enlarge the number of courses offered in that field and to assume the administrative responsibility that a department would have in the conduct of such work, with the understanding that the committee is responsible to the Faculty." In organizing such courses the committee has two objectives in mind: first, to offer courses from which undergraduate students who plan to enter the teaching profession may elect up to 18 semester hours in the field of education; second, to offer courses to meet the needs of graduate students who are preparing for teaching.

COURSES FOR UNDERGRADUATES

Following the general principle that college students who are preparing to enter the teaching profession should secure a thorough background in the subjects which they expect to teach before they enter professionalized courses in education, the committee has ruled that the completion of two years of college work be a prerequisite for all the courses in education listed below. Twelve semester hours of credit in the subject involved is a prerequisite for all special-methods courses. (Additional prerequisites are stated in certain courses.) These special methods courses are given by specialists in the various subject matter fields; this practice conforms

with the committee's view that methods of teaching a subject must be taught in connection with the content in that subject. In addition to the special methods courses, foundation courses are offered in as many of the different content-fields in education as possible.

The first five courses listed below should be considered as giving a general background for other more specialized courses in the field of education. A student expecting to elect only one or two courses in education should in general limit his choice to this group. A student expecting to elect twelve or more semester hours in education should include in his program three or more courses from this group.

COURSES FOR GRADUATE STUDENTS

Certain courses in education are open to graduate students of various departments. The Graduate Board has ruled that a graduate student who is definitely preparing to teach in secondary schools may, with the approval of his major department, elect one or more courses in education which may count toward the course requirement for a master's degree. All of the courses announced below, with the exception of course 17b, are open under this regulation to properly qualified graduate students.

COURSES IN EDUCATION

Education 14a (Psychology 14a). Educational Psychology. A study of psychology as it bears upon the problems of education.

Half course, first semester. W., 11 and 12; F., 11. MR. JONES

Education 15b (Psychology 15b). Individual Differences and Exceptional Children. The course will include a study of the bright, the dull, the psycho-neurotic, and the delinquent child. (Graduate students may register for two hours' credit, and attend only the Saturday meetings.)

Half course, second semester. Th., 11; S., 11 and 12. MR. JONES

Education 16b (Psychology 16b). Principles of Education. A survey of the aims, responsibilities, and general methods in education.

Half course, second semester. W., 11 and 12; F., 11.

To be omitted in 1935-36.

MR. JONES

[Education 17b (Psychology 17b). Philosophical and Historical Foundations of Modern Education. A study of the historical development and philosophical bases of modern educational policies and practices.

Half course, second semester. W., 11 and 12; F., 11. MR. JONES]

To be offered in 1935-36.

CLARK UNIVERSITY BULLETIN

NUMBER ~~104~~ ¹¹²

JUNE, 1934

COURSES IN EDUCATION LEADING TO THE MASTER OF ARTS DEGREE

FOR THE
ACADEMIC YEAR OF
1934-1935

Bulletin is published in January, February, March, April, May, June, October, November and December.

Entered as second-class matter, December 29, 1920, at Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

COURSES IN EDUCATION

FOR THE

ACADEMIC YEAR OF 1934-1935

CLARK UNIVERSITY from the date of its founding has taken an active interest in the training of educators. The pioneer work of G. Stanley Hall in child study and that of William H. Burnham in mental hygiene placed Clark among the first universities in America to become interested in the problems of the teacher and the learner as suitable ones for scientific study. Thus there grew up, along with the older fields of study such as chemistry, physics, history, geography, and the like, the Department of Psychology which has centered its attention upon the study of behavior in its many forms. Every year graduates from the various departments have gone into a variety of teaching positions ranging from that of superintendent or teacher in the elementary school to that of professor in normal school, college, and university.

In its rather wide experience in the training of educators, Clark has always held to the principle that a teacher must first of all be a scholar in the field in which he is to teach. It is encouraging to see that this view is spreading among superintendents of schools, State Boards of Education, at least in New England. It is also encouraging to see in the University a sentiment growing in the majority of the departments to the effect that something more than mastery of subject-matter is needed

paration of teachers, at least for positions below the college level.

As a consequence of the increased appreciation on the part of the undergraduate and graduate departments at the University, of additional courses in Education in addition to the thorough grounding in the subjects to be taught, the Faculty voted in 1932 to appoint a standing committee on Courses in Education. The duty of this committee was "to enlarge the number of courses offered in the field of education, and to assume the administrative responsibility that a department would have in the conduct of such work, with the understanding that the Committee is responsible to the Faculty."

In organizing such courses the Committee kept in mind the needs of (1) undergraduate and graduate students without teaching experience who are preparing to enter the profession, and (2) experienced teachers holding baccalaureate degrees who wish to extend their education by full or part-time study. It is for the latter group especially that this bulletin was prepared.

Organization of Courses Leading to a Master's Degree

To meet the needs for work in Education the University has not deemed it wise to set up a separate department, but rather to encourage the developing of a plan of co-operation between the Committee on Courses in Education and the interested departments such as those

of psychology, history, geography, chemistry and economics-sociology. Students who are interested in pursuing study to the Master's degree with work in Education should plan a major in one of the regularly established departments, and elect a minor of from 6 to 12 semester hours in Education.

A plan has been worked out between the Committee on Courses in Education and a majority of the graduate departments in the university whereby this can be done. The operative arrangement is somewhat different for different departments, and therefore the requirements in each department will be presented separately.

REQUIREMENTS IN THE VARIOUS MAJOR DEPARTMENTS WHICH ARE ACCEPTING EDUCATION COURSES TOWARD THE M.A. DEGREE

The full requirements and prerequisites of the various departments cannot be given here, but some indication can be given as to the number of semester hours that will be required and the amount of Education which may be counted toward the degree. Prospective students who desire further information about the courses and requirements in the departments should write to the Recorder of the University for a general Catalogue. In addition to the course requirements given below, it will be necessary for the student to prepare

acceptable thesis and pass whatever general examination his department may require.

Department of Chemistry. Properly qualified students applying to this Department through the Committee on Courses in Education will be required to complete 24 semester hours of work beyond the Bachelor's degree. Some of this may be taken in Education. This requirement will, of course, be increased in the case of students who cannot satisfy all the prerequisites for courses which they wish to take.

Department of Economics and Sociology. Candidates for the Master's degree in this Department must offer a minimum of 21 semester hours beyond the Bachelor's degree. A minimum of 10 semester hours in Education may be counted toward this course requirement. Failure to meet the prerequisites for courses will obviously serve to increase the amount of work required.

Department of Geography. Students who are adequately prepared to enter the Graduate School might normally expect to complete in two years the work for the Master's degree with a major in Geography and a minor in Education, including as much as 12 hours in Education.

Department of History and International Relations. Candidates for the Master's degree in this Department must offer a minimum of 18 semester hours beyond the Bachelor's degree. The Department will accept

a maximum of 6 semester hours of work. Education as a part of the course requirement. Failure to meet the prerequisites for any course will obviously serve to increase the amount of work required.

Department of Psychology. The number of courses in Education which may be offered for credit toward the M.A. degree in this Department will depend partly on the preparation and the aims of the candidate. The Department will be glad to consider each application individually through correspondence or personal conference.

The Department of Biology invites correspondence from properly qualified students who may wish to major in that Department.

Time of Meeting for Classes in Major Departments. The schedule for all classes is given in the general Catalogue of the University and need not be repeated here. A copy of the Catalogue may be obtained from the Records upon request. In the case of students who wish to do their work, or the major part of it, in afternoon and Saturday classes, it is suggested that they submit to the Chairman of the Committee on Courses in Education a tentative program of courses which they wish to offer for the degree and he will submit the same to the various Departments for their consideration. Where there is sufficient demand for a course in the late afternoon or Saturday, it will be possible in certain cases to schedule it at that time, especially a course marked "hours to be arranged."

ADMISSION REQUIREMENTS TO THE GRADUATE SCHOOL

Eligibility. Admission is granted only by the Graduate Board on the recommendation of the department. A graduate of more than average ability from a college or university which is on the approved list of the Association of American Universities is eligible for admission as a regular graduate student. A graduate of average or attainments from a four-year college not on the list is normally eligible for admission as a special graduate student for a special period. A special graduate student may be admitted by the Graduate Board to regular graduate standing after a semester, or its equivalent, of study and upon the recommendation of his major department.

Application. A prospective student should apply to the Recorder for an application blank. The blank should be filled out and sent to the Committee on Courses in Education. A recent photograph (passport size preferred) should accompany the application. A definite statement should be made by the prospective student as to whether or not he plans to do full-time residence work for all or part of the entrance period or whether he plans to do this work on a part-time basis. If he proposes to do any part-time work he should state the hours which he plans to devote to university study. Application should be in by November 24 for first semester courses and by January 3 for second semester courses.

Admission: Admission will be determined by the Graduate Board's estimate of the applicant's general preparation and his plan of study. Acceptance into the graduate school does not, of course, imply in any way admission to candidacy for a degree. The latter is dependent upon the class-work and research done in the University.

Fees: The tuition for full-time students at the University is \$200.00 per year. In addition to this all students are required to pay a matriculation fee of \$5.00. Students carrying small programs are charged at the rate of \$10.00 per semester hour of course credit.

REQUIREMENTS FOR THE DEGREE MASTER OF ARTS

Students who have been regularly admitted to the Graduate School, or others who have met all special requirements imposed by the Graduate Board, are eligible for the degree Master of Arts if and when the following requirements are met: (1) The satisfactory completion of all course requirements imposed by the major department; (2) The preparation and defense of an acceptable thesis; and (3) The passing of a final oral examination of approximately one hour's duration.

It is important for students primarily interested in Education to note that since Education courses are not organized into a department, it is impossible to elect Education as a major. However, it is believed that

of many students can be met by the co-
tative arrangement which has been made
various departments whereby a liberal
nt of work in Education may be taken
minor. In general it is recommended that
nts interested in school administration
d major in finance and taxation or socio-
omic problems in the Department of Eco-
cs. Those interested in teaching or super-
g certain subjects in the elementary or
idary school should major in the subject
e taught or supervised.

COURSES IN EDUCATION

Any of the following courses are accepted
graduate credit except Education 17b and
.)

**Education 14a (Psychology 14a). Edu-
ational Psychology.** A study of psychology
bears upon the problems of education.

three hours, first semester. W., 11-12:45;
1-12. Mr. Jones

**Education 15b (Psychology 15b). Indi-
vidual Differences and Exceptional Chil-
dren.** The course will include a study of the
bright, the dull, the psycho-neurotic, and the
retarded child. (Graduate students may
enter for two hours' credit, and attend only
Saturday meetings.)

three hours, second semester. Th., 11-12;
1-12:45. Mr. Jones

Education 16b (Psychology 16b). Principles of Education. A survey of the responsibilities, and general methods in education.

Three hours, second semester. W., 11-12 F., 11-12. Mr. Jones

Education 17b (Psychology 17b). Philosophical and Historical Foundations of Modern Education. A study of the rise and philosophical bases of modern educational policies and practices.

Three hours, second semester. To be omitted in 1934-35. Mr. Jones

Education 19a (Psychology 19a). Psychology of Character. A survey and critical evaluation of the experimental evidence in the field and its application to education for character and citizenship. (Graduate students may register for two hours' credit and attend only the two hour meeting on Saturday.)

Three hours, first semester. Th., 11-12; 11-12:45. Mr. Jones

Education 101a (French 101a). Teaching of Modern Languages. A study of the major problems in the teaching of French. Incidental references will be made to German and Spanish. Prerequisite, third-year college French or German course, taken previously at the same time.

Three hours, first semester. W., 4:20 to 5:50. Mr. Churchman

Education 144a (English 144a). Teaching of English. Methods of teaching poetry, drama, novel, short story, essay, or

written composition. Prerequisite, at least
semester hours of English on college level.
three hours, first semester, M., 4:20 to 6.

Mr. Illingworth

Education 27b (Sociology 27b). Educational Sociology. The school in relation to
city; evidences of cultural lag; trend to-
ward socialization of curriculum and adminis-
tration as adjustments to social change. Pre-
requisite, Sociology 11.

three hours, second semester. Hours to be
omitted.

Mr. Barnes

**Education 119 a (Geography 119a). Geography in Junior High School Educa-
tion.** An analysis of the organization and
administration of junior high school curricula.
The place of geography in the social studies
curriculum.

three hours, first semester. To be omitted
934-35.

Mr. Ridgley

**Education 29b (Geography 29b). Geography
in Education.** A survey of geography
in the present-day American school system, in-
cluding elementary and secondary schools,
teacher-training institutions, colleges and uni-
versities. Prerequisite, geography courses total-
ing at least 12 semester hours.

three hours, second semester. Tu. Th. S., 8.

Mr. Ridgley

**Education 313a (Psychology 313a). Advanced Educational Psychology Group
Methods of Experimentation.** The purpose
of the course will be primarily to give practice

in the most valuable statistical methods for psychological experimentation.

Two hours, first semester. Tu., 4:20.

Mr. Jones

Education 314b (Psychology 314b)
Advanced Educational Psychology: Test and Measurements. A systematic and critical survey of psychological and educational tests. Both theoretical and applied aspects of testing will receive consideration.

Two hours, second semester. Tu., 4:20.

Mr. Jones

Date of Registration

The date of registration for first semester courses is September 26; that for second semester courses is February 5. Application for admission must be in two days before the registration date.

Inquiries

All inquiries and application for admission should be sent to the Chairman of the Committee on Courses in Education.

PHILIP H. CHURCHMAN

ROBERT S. ILLINGWORTH

DOUGLAS C. RIDGLEY

VERNON JONES, *Chairman*

Committee on Courses in Education

Education 19a (Psychology 19a). Psychology of Character. A survey and critical evaluation of the experimental evidence in the field and its application to education for character and citizenship. (Graduate students may register for two hours' credit and attend only the two hour meeting on Saturday.)

Half course, first semester. Th., 11; S., 11 and 12. MR. JONES

Education 101a (French 101a). The Teaching of Modern Languages. A study of the major problems in the teaching of French. Incidental references will be made to German and Spanish. Prerequisite, third-year college French or German course, taken previously or at the same time. Graduate students may upon special request register for the Wednesday meeting only.

One third of a course, first semester. W., 4:20-6.

MR. CHURCHMAN

Education 144a (English 144a). The Teaching of English. Methods of teaching poetry, drama, novel, short story, essay, oral and written composition. Prerequisite, at least 12 semester hours of English on college level.

Half course, first semester. M., 3-6.

MR. ILLINGWORTH

Education 27b (Sociology 27b). Educational Sociology. Education (organized and unorganized) and intellectual leadership in their important relationships to such other social institutions as politics, government, the family, religion, patriotism, depressions, economic institutions, etc. Education in the U. S. as it is and as it may be, will receive particular attention. Prerequisite, Sociology 11.

Half course, second semester. Tu. Th. S., 9.

MR. BALSAM

[Education 119a (Geography 119a). Geography in Junior High School Education.] An analysis of the organization and administration of junior high school curricula. The place of geography in the social studies program.

Half course, first semester. Tu. Th. S., 9.

MR. RIDGLEY]

[Education 29b (Geography 29b). Geography in Education.] A survey of geography in the present-day American school system, including elementary and secondary schools, teacher-training institutions, colleges and universities. Prerequisite, geography courses totaling at least 12 semester hours.

Half course, second semester. Tu. Th. S., 8.

MR. RIDGLEY]

Education 313a (Psychology 313a). Advanced Educational Psychology: Group Methods of Experimentation. The purpose of the course will be primarily to give practice in the most valuable statistical methods for psychological experimentation.

Two hours, first semester. Tu., 4:20-6.

MR. JONES

Education 314b (Psychology 314b). Advanced Educational Psychology: Tests and Measurements. A systematic and critical survey of psychological and educational tests. Both theoretical and applied aspects of testing will receive consideration.

Two hours, second semester. Tu., 4:20-6.

MR. JONES

DEPARTMENT OF ENGLISH

PROFESSOR AMES, PROFESSOR DODD, ASSOCIATE PROFESSOR
ILLINGWORTH, MR. OLSON

Prescribed work in English consists of English 11, required of all freshmen, and an additional course of English literature or composition, to be completed by the end of the junior year. A *major* in English consists of four courses, exclusive of English 11. A *minor*, of three courses, exclusive of English 11. For students who major in English courses 13, 15 and 111 are prescribed. Either course 15 or course 111 should be taken in the sophomore year.

Honors in English will be awarded to qualified students who complete to the satisfaction of the department a special program of study during their Junior and Senior years and who pass a comprehensive examination at the end of the Senior year.

The Appreciation of the Fine Arts, given by Professor Dodd, is a requirement for all students, to be completed in either the freshman or the sophomore year. This course is not counted in fulfillment of requirements in English.

THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department of English for the best poem by an undergraduate. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

COURSES IN ENGLISH

1. PRIMARILY FOR UNDERGRADUATES

11. English Composition. The aim of the course is to improve expression in writing and to increase appreciation of literature through weekly practice in writing, particularly in expository writing, and through collateral reading.

Required of freshmen.

Through the year. Tu. Th. S., 11.

MR. ILLINGWORTH AND MR. OLSON

12a and b. Public Speaking. A course in the composition and delivery of speeches and practice in impromptu speaking. The aim of the course is to train the student to think logically and to speak simply and effectively when on his feet.

Half course, first semester and second semester. Tu. Th. S., 9.

MR. ILLINGWORTH

[143b. Argumentation and Debate. A systematic study of the principles and practice of argumentation.

Half course, second semester. M. W. F., 9. MR. ILLINGWORTH]

142. The English Novel. First semester, a survey of the English novel from its beginnings to Thomas Hardy. Second semester, a study of the novel from the beginning of the twentieth century to and including the present year.

Through the year. Tu. Th. S., 8.

MR. ILLINGWORTH

144a (Education 144a). The Teaching of English. Methods of teaching poetry, drama, novel, short story, essay, oral and written composition. Prerequisite, at least twelve semester hours of English on college level.

Half course, first semester. M., 3-6.

MR. ILLINGWORTH

13a. Shakespeare. A general survey of Shakespeare's works, including the reading and class discussion of ten plays. Elective for juniors and seniors.

Half course, first semester. Tu. Th. S., 10.

MR. AMES

15. A Survey of English Literature. A course in English literature from its beginning to the end of the eighteenth century. Elective for juniors and seniors.

Through the year. M. W. F., 10.

MR. AMES

[16b. English Composition. Open to students who have attained high standing in English 11.

Half course, second semester. Tu. Th. S., 10.

MR. AMES]

18b. The Bible as Literature. Elective for juniors and seniors.

Half course, second semester. Tu. Th. S., 10.

MR. AMES

110b. Nineteenth Century Poetry. A study of English poetry from Wordsworth to Masfield. Elective for juniors and seniors.

Half course, second semester. Tu. Th. S., 12.

MR. AMES

[111. American Literature. Readings in American Literature, from the Colonial period to the present day. The course may be elected for the year or for the first semester only. Elective for juniors and seniors.

Through the year. Tu. Th. S., 12.

MR. AMES]

112a. Nineteenth Century Prose. English essayists from Lamb to Stevenson. Elective for juniors and seniors.

Half course, first semester. Tu. Th. S., 12. MR. AMES

113a. Modern English Drama. A study of contemporary English dramatists.

Open to freshmen.

Half course, first semester. Tu. Th. S., 9. MR. DODD

[114b. Elizabethan and Restoration Drama. The plays by Shakespeare's distinguished contemporaries and his successors of the Restoration.

Half course, second semester. Tu. Th. S., 9. MR. DODD]

121a. Biography and Letters. The biography, autobiography and correspondence of distinguished authors, painters and sculptors, from the eighteenth century to the present. This course is open only to upper classmen who are proficient in English.

Half course, first semester. M. W. F., 9. MR. DODD

[122b. Modern Poetry. A study, in representative contemporary poets, of the new tendencies in verse. Opportunity is afforded for original verse composition. Open only to upper classmen who are proficient in English.

Half course, second semester. Tu. Th. S., 9. MR. DODD]

[124a. American Drama. A study of the American drama from colonial times to the present.

Open to freshmen.

Half course, first semester. M. W. F., 9. MR. DODD]

[125a. The Short Story. Representative short stories in English and American literature.

Open to freshmen.

Half course, first semester. Tu. Th. S., 9. MR. DODD]

126b. Modern Continental Drama. A companion course to Modern English Drama.

Half course, second semester. Tu. Th. S., 9. MR. DODD

FINE ARTS

1b. Fine Arts. A course in the appreciation of painting, sculpture and architecture. Illustrated lectures, assigned readings, field trips. This course is not counted in fulfillment of the requirement in English.

Half course, second semester. M. W. F., 9. MR. DODD

DEPARTMENT OF GEOGRAPHY

A complete statement of the aims and the scope of the offerings in geography will be found in the announcement of the Graduate School of Geography.

DEPARTMENT OF GEOLOGY

PROFESSOR LITTLE

1. PRIMARILY FOR UNDERGRADUATES

12. General Geology. A study of the origin of scenery, the classification of rocks, the structure of the earth, the geography of the past, and the evolution of life. Three recitations and one laboratory period or field trip weekly. (The laboratory period will be utilized in the manner deemed most advantageous by the instructor.) Attendance on one out-of-town field trip lasting two days or more is required.

Indivisible course.

Through the year. M. W. F., 8; Th., 2.

MR. LITTLE

The following courses are offered occasionally on special request of four or more students.

[**121a. Crystallography, Mineralogy, and Blowpipe Analysis.** An elementary course on the identification of minerals by their geometrical, physical and chemical properties. Two class meetings and one laboratory period weekly. General geology is not a prerequisite for this course.

Half course, first semester.

MR. LITTLE]

[**122b. Economic Geology.** A study of the origin of the deposits of useful minerals and a discussion of their more important occurrences throughout the world. Elementary chemistry and geology provide a desirable preparation for this course. Two class meetings and one laboratory period weekly. Geology 121 is a prerequisite for this course.

Half course, second semester.

MR. LITTLE]

DEPARTMENT OF GERMAN

ASSOCIATE PROFESSOR BOSSHARD, ASSISTANT PROFESSOR JANTZ

The Department of German provides courses for the fulfillment of the general requirement in foreign languages as well as for the completion of a major, or minor in German. The courses numbered 11, 12, 13 are regular courses leading up to a good reading knowledge. German 131, "Practice in Speaking and Writing German," is a

course preparing especially for advanced work in literature, and for teaching. Credit will be given for only one of the two courses: German 13 and 131. Courses designated as "advanced courses in literature," numbered 15, or higher, have as a prerequisite: German 131, or an achievement test in reading, writing and oral use of the language. Students taking the regular third year course, German 13, will find themselves sufficiently prepared for advanced courses, if they do superior work. A *major* in German consists of four courses, exclusive of "Elementary German"; a *minor* of any three courses. German 14, Introduction to the Culture of Germany, will be counted toward the completion of a *major* in conjunction with at least one advanced course in literature, and toward a *minor* in conjunction with either German 13 or German 131.

COURSES IN GERMAN

The department of German will offer a new program of courses beginning September, 1935. The list below, of courses offered during the current year is followed by an announcement of the new program.

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary German. For description see German 11 in new program below. Indivisible course.

Open to freshmen.

Through the year. Two sections, M. W. F., 8 and 9.

MR. BOSSHARD

12. Second Year German. For description see German 12 in new program below.

Open to freshmen.

Through the year. Two sections, Tu. Th. S., 9 and 12.

MR. JANTZ

13. Advanced Reading and Composition. For description see German 13 in new program below.

Open to freshmen.

Through the year. Tu. Th. S., 8.

MR. JANTZ

131. Advanced Reading; Speaking and Writing. For description see German 131 in new program below.

Open to freshmen.

Through the year. M. W. F., 11.

MR. BOSSHARD

192a. Lyric Poetry. A survey of German lyric poetry in its principal representatives. Prerequisite, German 12, or equivalent.

Half course, first semester.

MR. BOSSHARD

17. History of German Literature. For description see German 17 in new program below.

Through the year. Tu. Th. S., 11.

MR. JANTZ

193b. Goethe's Faust. For description see German 162 in new program below.

Half course, second semester.

MR. BOSSHARD

NEW PROGRAM

Beginning September 1935 the department of German will offer the following program of courses.

COURSES IN GERMAN

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary German. (Two *independent* classes designated as 11A and 11B.) Vocabulary drill, pronunciation and grammar; composition, reading of easy prose.

Indivisible course. Open to freshmen.

Through the year. M. W. F. 8 and 9.

MR. BOSSHARD

12. Second Year German. Reading, thorough review of grammar essentials, exercises in composition. Prerequisite: German 11.

Open to freshmen.

Through the year. Two sections, Tu. Th. S., 9 and 12.

MR. JANTZ

13. Third Year German. Extensive reading, chiefly in modern literature, grammar review, composition. Prerequisite: German 12.

Open to freshmen.

Through the year. Tu., Th., S., 8.

MR. JANTZ

131. Practice in Speaking and Writing. Extensive reading of modern German literature; speaking and writing. After the month of October the course is conducted in German. Prerequisite: Satisfactory work in German 12.

Open to freshmen.

Through the year. M. W. F. 11.

MR. BOSSHARD

14. Introduction to the Culture of Germany. For students with or without a knowledge of German. This course is intended as an introduction to various aspects of German culture, from the early Middle Ages to the present. It stresses particularly the art, music, and literature in their inter-relations and against their historic background. Will not be counted toward the fulfillment of the general requirement in foreign languages.

Through the year.

MR. JANTZ AND MR. BOSSHARD

ADVANCED COURSES IN LITERATURE

151. Classical and Nineteenth Century German Drama. Reading and discussion of select plays of Lessing, Goethe, Schiller, Kleist, Hebbel, Wagner, Hauptmann, and others.

Through the year.

MR. JANTZ

152. The German Novel of the Nineteenth and Twentieth Centuries. Select novels, and novellen from the Romantic period to the present.

Through the year.

MR. JANTZ

153. Contemporary German Literature. Lectures, readings. In the first semester the course will be conducted largely in English, but in the second in German.

Through the year.

MR. BOSSHARD

161a. Lyric Poetry. A survey of representative German lyric poetry.

Half course, first semester. Tu. Th. S., 11.

MR. BOSSHARD

162b. Goethe's Faust. A study of this Drama, its message, and of the poet's own development and the evolution of the literary and philosophic currents of his time.

Half course, second semester. W. Th. F., 12.

MR. BOSSHARD

17. Survey of German Literature. Lectures, readings, and assigned topics in German literature from the beginnings to the present, against a background of Germany's historical development.

Through the year. Tu. Th. S., 11.

MR. JANTZ

181. Advanced Studies in Goethe's Faust. Mr. Bosshard is ready to direct competent students who propose plans for special studies in Goethe's Faust. Prerequisite: 162b.

182. Advanced Reading in German Philosophy. A brief general introduction to philosophy in general. Reading chiefly of modern German philosophers.

Through the year.

MR. BOSSHARD

19. Seminar for Honor Students.

MR. BOSSHARD AND MR. JANTZ

DEPARTMENT OF HISTORY AND
INTERNATIONAL RELATIONS

PROFESSOR BLAKESLEE, ASSOCIATE PROFESSOR LEE, ASSOCIATE
PROFESSOR JORDAN, ASSISTANT PROFESSOR BILLINGTON

UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give in its several courses a broad knowledge of the more significant

aspects of the growth of the leading countries of the world. This includes the study not only of the important facts, but more especially of the processes of development in government, diplomacy, society, business, religion, science, and education.

History 11, primarily for freshmen, is open to members of all classes and is prerequisite for all other courses taken by "majors" or "minors" in this department. Students who wish merely to fulfill the college requirement in "Division B" or to take a single course in this department for general cultural purposes may, *after the freshman year*, elect any other course whose number begins with (1) without having previously completed History 11. Any course whose number begins with (2) must be preceded by History 11 and a second course whose number begins with (1). The choice of this second course will depend upon the special interest of the student.

Exceptions to these rules may be made only with the approval of the department.

GRADUATE WORK

The distinctive feature of the graduate work is the emphasis it places upon the various aspects of international relations. Without neglecting investigation in the economic, political, and social life of preceding centuries, it makes an especial study of the problems and the difficulties constantly arising in the international relations and diplomacy of the family of states. The field includes not only the United States and the nations of Europe, but also the newer and rapidly developing states of Asia, Latin America, and Africa.

THE DOCTORATE

The various courses offered in the department are so arranged, in cycles of two or three years, that students working for their doctorate will be enabled to secure a full program each year.

A feature of the method of instruction in the department is the frequent informal conferences between instructor and student, and the Seminar method in many of the courses.

The following courses in related department may advantageously be taken to supplement major work in the Department of History and International Relations: Geography of North America (Geog. 181a); Geography of Europe (Geog. 185b); Geographic Aspects of United States Foreign Trade (Geog. 362b); General Principles of Human Geography (Geog. 37a); Geography of Europe (Geog. 375b); Caribbean America (Geog. 383b); South America (Geog. 384a); Economic History (Ec. 14); International Economic Policies (Ec. 31); Social Psychology (Psy. 311).

GOVERNMENT AND POLITICAL SCIENCE

The following courses, given in the Department of History and International Relations, are frequently listed under a separate Department of Government and Political Science.

History 12. European and American Governments.

History 18. A Survey of International Relations.

[**History 231. International Law.**]

[**History 205. History of Political Thought.**]

[**History 30. Problems in International Relations.**]

History 33. Foreign Relations of the United States.

History 313a. Constitutional History of the United States.

COURSES IN
HISTORY AND INTERNATIONAL RELATIONS

1. PRIMARILY FOR UNDERGRADUATES

11. Introduction to the History of Europe. The course covers the period from the fall of Rome to the present time, and serves as a general introduction to further historical study. Indivisible course.

Open to freshmen. See departmental announcement above.

Through the year. Tu. Th. S., 10.

MR. LEE

12. European and American Governments. The first semester will give a description of the leading Governmental systems of Europe; the second will deal with the Government and politics of the United States.

Through the year. A divisible course. Tu. Th. S., 11.

MR. LEE AND MR. BILLINGTON

[**15. History of England.** A general course forming a background for American history and an introduction to an understanding of Britain's place in the present world. Lectures, text-book, collateral reading and quizzes.

Through the year. M. W. F., 10.

MR. JORDAN]

17. American History Since 1783. After a brief survey of the American Revolution, the course will treat carefully the period since 1783. Divisible only in special cases with the approval of the department.

Through the year. Tu. Th. S., 9.

MR. BILLINGTON

18. A Survey of International Relations. A general survey of the whole field of international relations which will furnish a foundation for further and more specialized work.

Through the year. M. W. F., 9.

MR. BLAKESLEE

117 (Greek 17). Greek History. This course will cover the period from the beginnings of Greek History to 146 B. C.

Open to freshmen with the consent of the instructor.

Through the year. M. W. F., 11.

MR. BRACKETT

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

[20. Europe Since 1848. The internal and external development of the major European nations with special emphasis on the period from 1870 to the present.

Through the year. Tu. Th. S., 11.

MR. LEE]

22. The Pacific and the Far East. The course deals especially with China, Japan, Russia in Asia, and the islands of the Pacific.

Through the year. M. W. F., 10.

MR. BLAKESLEE

[231. International Law. A general course adapted for advanced students who will do a large amount of outside reading.

Through the year. M. W. F., 10.

MR. BLAKESLEE]

[24. Modern France. The course, beginning with the period of the Renaissance, surveys with greater detail than is possible in History 11 the history of France to the present time.

Through the year. Tu. Th. S., 11.

MR. LEE]

[25a. British India. A survey of European rivalry in India, the work of the East India Company, the development of administration by the crown, and recent developments toward self-government.

Two hours, first semester.]

26. England Since 1760. A general course, stressing the political, economic and social development of the modern commonwealth.

Through the year. M. W. F., 9.

MR. JORDAN

[27. Latin America. A survey of the history of the various Latin American countries with emphasis upon the relations with the United States.

Through the year.

MR. BLAKESLEE]

28. History of the British Empire. Most of the course will deal with developments and problems since 1870.

Through the year. M. W. F., 9.

MR. JORDAN

29b. Russia. The aim of this course is to present Russian internal development from the origin of the Kievan state to the present time with special emphasis on the revolution of 1917 and the Soviet régime since that date.

Half course, second semester. Tu. Th. S., 12.

MR. LEE

201. Social and Intellectual History of the United States. The evolution of American life from the Revolution to the present day, with emphasis upon the social customs, economic influences, racial contributions, religious beliefs, and humanitarian movements.

Through the year. Tu. Th. S., 10.

MR. BILLINGTON

[**205. History of Political Thought.** An historical course, in which the development of thought is stressed rather than the theories of individual writers.

Through the year. M. W. F., 11.

MR. JORDAN]

[**241a. The United States Since 1865.** A synthesis of the political, social and economic forces in the development of the United States since the Civil War. Prerequisite, History 17 or its equivalent.

Half course, first semester.]

[**242. American Colonial History to 1789.** The European background of American history, the colonial period, and the American Revolution. Prerequisite, History 17 or its equivalent.

Through the year. Tu. Th. S., 10.

MR. BILLINGTON]

3. PRIMARILY FOR GRADUATE STUDENTS

[**30. Problems in International Relations.** An intensive study of present outstanding problems, especially those which involve the policies, interests, and obligations of the United States.

Two hours, through the year. M., 3-5.

MR. BLAKESLEE]

[**32. Recent International Relations of the United States.** A lecture and research course covering the period from the Civil War to the present.

Two hours, through the year.

MR. BLAKESLEE]

33. Foreign Relations of the United States. The history of the foreign relations of the United States from 1783 to the present.

Two hours, through the year. M. 3-5.

MR. BLAKESLEE

305b. Topics in the History of Political Thought. A study of selected men and movements of the nineteenth and twentieth centuries.

Two hours, second semester. W., 3-5.

MR. JORDAN

313a. Constitutional History of the United States. The Constitution is treated as a growing organism, responsive to the changing political, social and economic conditions of the country.

Two hours, first semester. Tu. 3-5.

MR. BILLINGTON

[**320. England Since 1830.** Students will be expected to read widely and to undertake a small amount of individual research.

Two hours, through the year. M. W., 4.

MR. JORDAN]

322a. Selected Topics in Recent British History. Aspects of the period since 1815 will be dealt with but the ground covered will change somewhat from year to year.

Two hours, first semester. W., 3-5.

MR. JORDAN

331. European International Relations Since 1870. A study of the diplomatic history of Europe from the Congress of Berlin to the Locarno agreements, 1925.

Two hours, through the year. Th., 3-5.

MR. LEE

[333. Topics in the Recent and Contemporary History of Continental Europe. The course will consist chiefly of research by the individual student in problems confronting the European countries at the present day.

Two hours, through the year. Th., 3-5.

MR. LEE]

[342. The Influence of Westward Expansion in American Development. The westward movement from colonial times to the passing of the frontier will be discussed in detail.

Two hours, through the year. Tu., 3-5.

MR. BILLINGTON]

[35b. Tudor and Stuart England. A survey for mature students of the period from 1485 to 1688.

Two hours, second semester. W., 4-6.

MR. JORDAN]

351. Research in the International Relations of the United States.

MR. BLAKESLEE

352. Research in the International Relations of the Pacific and the Far East.

MR. BLAKESLEE

353. Research in the History and International Relations of the British Empire.

MR. JORDAN

354. Research in the History and International Relations of Continental Europe.

MR. LEE

355. Research in the History of the United States.

MR. BILLINGTON

36. Seminar. The students in the department meet each week to study particular topics in international relations and to consider the results of investigation carried on in the department.

Weekly, through the year. Tu., 7.

MESSRS. BLAKESLEE, LEE, JORDAN, AND BILLINGTON

MATHEMATICS

See announcement of the Department of Physics and Mathematics.

DEPARTMENT OF PHYSICS AND MATHEMATICS*

PROFESSOR GODDARD,† ASSOCIATE PROFESSOR MELVILLE, ASSOCIATE
PROFESSOR ROOPE, ASSISTANT PROFESSOR CADY

UNDERGRADUATE WORK IN PHYSICS

The aim of the undergraduate work in physics is to give to students a knowledge of the principles which are at the basis of modern applications of science to human affairs. It is deemed equally desirable to impart a knowledge of the methods and results of modern physics which are influencing so profoundly our fundamental concepts and without which no one may hope to be considered liberally educated. The department aims also to fit students with professional preparations for chemistry, meteorology and allied sciences, medicine, engineering and science teaching, as well as for professional or graduate work in physics.

GRADUATE WORK IN PHYSICS

The department is prepared to accept candidates (in physics only) for the degrees of Doctor of Philosophy and of Master of Arts. Emphasis is placed not only upon mathematical physics but also upon the completion of an original research problem for which work the laboratories and library provide unusual facilities.

Graduate students in physics whose minor is in mathematics may arrange for a special course in applied mathematics based, for the degrees of Master of Arts, on Mellor's *Higher Mathematics for Students of Chemistry and Physics*.

UNDERGRADUATE WORK IN MATHEMATICS

Courses in mathematics are offered at the undergraduate level only. Freshman mathematics is offered in two courses; one for those who expect to "major" in physics, chemistry or biology; the other for those who expect to "major" in mathematics or who choose the course as an elective. A second year of general mathematics is offered to those who complete either of the freshman courses. In addition, Mr. Melville offers such advanced courses, or courses in applied mathematics as may be required from time to time, depending on the interests of the students.

*Since September, 1933, the Department of Mathematics has been combined with the Department of Physics, for the time being, with Professor Goddard as chairman of the combined departments.

†Absent on leave, 1934-35.

COURSES IN PHYSICS

1. PRIMARILY FOR UNDERGRADUATES

11. General Physics. During the first semester, the work covers mechanics and heat, and during the second semester, electricity and magnetism, wave motion, sound, and light. The textbook is Duff's *General Physics*. Mathematics 110 or 111 is advised, but not required. Indivisible course.

Open to freshmen.

Through the year. M. W. F., 10; W. or Th. 2. MR. ROOPE

[13. History of Physics. A conference course on the history of the various branches of Physics. This course is not accepted as part of a *major* or a *minor*. Prerequisite, Physics 11.

Through the year. MR. GODDARD]

14. Mechanical and Electrical Measurements. During the first semester this course consists of electrical measurements with advanced problems in optics. In the second semester the course consists of laboratory exercises in dynamics, followed by advanced problems in heat.

Through the year. Tu. W. F., 2. MR. CADY

15a. Thermodynamics. This course includes a study of the thermal properties of the solid, liquid, and gaseous states, the laws of thermodynamics, and the theory of heat engines. Prerequisite, Physics 11.

Half course, second semester. M. W. F., 9. MR. ROOPE

15b. Optics. Geometrical and physical optics including work in practical photography. The textbook is Houston, *A Treatise on Light*. Prerequisite, Physics 11.

Half course, first semester. M. W. F., 9. MR. ROOPE

17. Introduction to Modern Physics. An elementary treatment of physical experiment and theory of the past fifty years, with emphasis on the more recent atomic developments.

Through the year. M. W. F., 10. MR. CADY

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

[22. Theoretical Mechanics. This course is a systematic presentation of theory together with the solution of problems. The textbook is Crew and Smith, *Mechanics for Students of Physics and Engineering*. Mathematics 12 must be taken before or with this course.

Half course, through the year. M. W. F., 8. MR. GODDARD]

23. Theory of Electricity and Magnetism. This course treats the general principles of dynamo and motor design, high-frequency phenomena and the electron theory of matter. The prerequisites are Physics 11 and Mathematics 110 or 111; Mathematics 12 must be taken before or with this course. A knowledge of differential equations is desirable. The textbook is Starling's *Electricity and Magnetism*.

Through the year.

MR. CADY

[27. Preliminary Mathematical Physics. This course involves reading on specially assigned topics. The object is to provide a comprehensive background for advanced work in physics. Open to undergraduate majors in physics of high standing.

Through the year.

MR. ROOPE]

[28a. Laboratory Methods. A course in the methods of preparing and presenting the results of experiments and the preparation by each student of a report on at least one assigned topic that involves reference tables and literature. Prerequisite, Physics 11.

Half course, first semester. M. W. F., 10.

MR. ROOPE]

216. Seminar. Open to all physics students. Occasional meetings. No credit.

THE STAFF OF THE DEPARTMENT

3. PRIMARILY FOR GRADUATE STUDENTS

34. Advanced Mechanics. This course includes vector analysis, the equations of Lagrange and Hamilton, the methods of Hamilton and Jacoby, and Newtonian and logarithmic potential functions together with a discussion of applications to various branches of physics.

Three hours, through the year. Tu. Th. S., 10.

MR. ROOPE

35. Advanced Electricity and Magnetism. The theory of electricity and magnetism is treated from the classical and the modern viewpoints.

Three hours, through the year. Tu. Th. S., 11.

MR. ROOPE

[36. The Partial Differential Equations of Mathematical Physics. Included in this course are vector analysis, the methods of Cauchy and Fourier, developments in series, the methods of Green and Riemann-Volterra, normal functions, and integral equations.

Two hours, through the year.

MR. GODDARD]

37. Research Work in Physics. Research work on an original problem in physics. Required of candidates for the master's degree.

MR. ROOPE

[311. Methods of Mathematical Physics.

Three hours, through the year.

MR. GODDARD]

[312. Theory of Elasticity and Dynamics of Fluids.*Three hours, through the year.*

MR. GODDARD]

[313. X-Rays.*Three hours, through the year.*

MR. ROOPE]

[314. Tensor Calculus with Applications in Physics.*Three hours, through the year.*

MR. ROOPE]

315. Research Work in Physics. Research work on an original problem in physics. Required of candidates for the degree of Doctor of Philosophy.

MR. GODDARD

[316. Seminar and Research Conference. A seminar on modern theories of physics, together with conferences on current literature and on the researches in progress.

Once a week, through the year. W., 4-6.

THE STAFF OF THE DEPARTMENT]

317. Selected Topics in Modern Physics.*Three hours, through the year. F., 2-5.*

MR. CADY

318. Relativity and Wave Mechanics.*Three hours, through the year. M., 2-5.*

MR. ROOPE

COURSES IN MATHEMATICS

110. General Mathematics.—For students who do not intend to “major” in physics, chemistry or biology. Algebra, trigonometry, graphics, simple differentiation and integration. Students who have not studied algebra since the first year of high school are advised not to register for this course. Text: Griffin, *Introduction to Mathematical Analysis*.

Open to freshmen.

Through the year. Tu. Th. S., 8.

MR. MELVILLE

111. General Mathematics.—for students who intend to “major” in physics, chemistry or biology.

Open to freshmen.

Through the year. M. W. F., 8.

MR. ROOPE

12. Second Year Course. Analytical Geometry, Differential and Integral Calculus. Continuation of Griffin, *Introduction to Mathematical Analysis*.

Through the year. M. W. F., 8.

MR. MELVILLE

13. Advanced Calculus and Differential Equations. Text, Griffin, *Mathematical Analysis, Higher Course*.

Through the year. Tu. Th. S., 9, first semester; 10, second semester.

MR. MELVILLE

113a. The Mathematics of Statistics. The mathematical foundations of the formulas and measures of elementary statistical procedure. Text, Burgess, *The Mathematics of Statistics*.

Half course, first semester. M. W. F., 10.

MR. MELVILLE

118a. Elementary Surveying. Text, Raymond, *Plane Surveying*. *Half course*, first semester. Tu. Th. S., 11 and additional time for field work.

MR. MELVILLE

DEPARTMENT OF PSYCHOLOGY*

PROFESSORS MURCHISON AND HUNTER, ASSOCIATE PROFESSOR

JONES AND ASSISTANT PROFESSOR GRAHAM.

Also PROFESSOR HOAGLAND of the Department of Biology.

LABORATORY FACILITIES

The psychological laboratories occupy thirty-two rooms on the third floor of the main building of the University. These laboratories were established by G. Stanley Hall immediately after the founding of Clark University, and constituted the first adequately appointed psychological laboratories in America. These laboratories, under the direction of Edmund C. Sanford and John W. Baird, increased rapidly in size and in research possibilities. The collection is rich in historical apparatus, an example being the vernier chronoscope which was invented and developed here by Edmund C. Sanford. The laboratories have an annual appropriation sufficient to provide for the purchase and manufacture of any apparatus that may be required for general and special investigations. Four dark-rooms, with special apparatus and facilities for research in the neural correlates of vision, have recently been added. The animal laboratory has recently been enlarged and better equipped.

UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give as broad a knowledge as possible of the more significant aspects of psychology. This includes courses leading to graduate work in psychology and also courses involving the application of psychological principles to education.

Students majoring in the department will be divided into three groups: first, those who plan to do graduate work in psychology, second, those interested in general psychology but not contemplating

*The Department of Education and School Hygiene was merged with the Department of Psychology at the beginning of the year 1926-27.

graduate work at Clark University, and third, those interested in educational psychology and education. The requirements for each of these classes are somewhat different. For the first class, the requirements are: Psychology 11 and 12, the equivalent of a course whose number begins with (2), an additional course in the department, a general college course in each of the following: biology, chemistry, physics, mathematics, and two years of French or German. For the second class the requirements are: Psychology 11 and 12, the equivalent of a course at the 200 level, and an additional course in the department. For students majoring in educational psychology, the requirements are: Psychology 11, the equivalent of two courses from 14a, 15b, 16b, 17b, and 19a, and an additional course in psychology or education on the advice of the instructor in educational psychology.

Students taking courses in educational psychology to satisfy state requirements for teachers' certificates, and not majoring in the department, are not required to take Psychology 11.

GRADUATE WORK

NOTE: Candidates for the degree of Doctor of Philosophy have usually been encouraged to "minor" in biology. However, other minors may be arranged. In whatever department the student chooses to "minor" it will be required, of course, that he satisfy the prerequisites and other requirements of that department, and it is desirable that all such prerequisites be satisfied before beginning work for the doctorate.

Admission. Admission to graduate work in psychology, as in other departments, is subject to the approval of the Graduate Board. However, the Graduate Board does not admit without the approval of the department. Admission is open to those individuals who have been graduated from accredited institutions, and whose academic record gives promise of the successful conduct of graduate work.

Courses. Students who come well prepared for beginning graduate work, i.e., with adequate training in elementary psychology supplemented by satisfactory training in allied fields and reading knowledge of French and German, may expect to devote nearly all their time during the first year to advanced course-work. Such students will need to devote about half their time to course-work during their second year, and may expect to give the major part of their time to research after the second year.

The Master's Degree. The general University requirements for the master's degree are explained elsewhere in the catalogue. The

department will supplement these requirements in individual cases where it seems wise to do so. Students planning to become candidates for the master's degree, such degree to be conferred at some definite future time, should confer with members of the staff as early as possible in order that a suitable thesis subject and program may be determined upon.

The Doctor's Degree. Only graduate students with superior records are encouraged to become candidates for the doctor's degree. Not only is such a candidate required to obtain exact information concerning all the significant psychological methods of research, but he is also required to demonstrate actual ability to use one or more of these methods in original research. The research for the doctor's degree will usually extend over a two-year period.

Theses. In addition to the general university requirements concerning the preparation and delivery of theses, the department has a supplementary requirement of an additional copy of each thesis, as well as a suitable photograph of the author, to remain on file in the department.

COURSES IN PSYCHOLOGY

1. PRIMARILY FOR UNDERGRADUATES

11. General Psychology. A general introduction to the study of human behavior from the genetic and experimental points of view. Prerequisite sophomore standing. Indivisible course.

Through the year. Tu. Th. S., 9.

MR. HUNTER AND MR. GRAHAM

101a. History of Psychology. This course includes a great deal of the history of scientific method and of philosophy, and the history of psychology is developed against that more general background.

Half course, first semester. M. W. F., 11. MR. MURCHISON

102b. Social Psychology. The students are made acquainted with most of the serious methods of analyzing social behavior, and are kept in touch with the experimental work on social behavior that is being done in the Clark laboratories.

Half course, second semester. M. W. F., 11. MR. MURCHISON

12. Experimental Psychology. Students will be made familiar, by use, with the apparatus used in psychological investigations. Admission by consent of instructor.

Through the year. Tu. Th., 2-5.

MR. GRAHAM

14a. (Education 14a). Educational Psychology. A study of psychology as it bears upon the problems of education.

Half course, first semester. W., 11 and 12; F., 11. MR. JONES

15b. (Education 15b). Individual Differences and Exceptional Children. The course will include a study of the bright, the dull, the psychoneurotic, and the delinquent child. (Graduate students may register for two hours' credit, and attend only the Saturday meetings.)

Half course, second semester. Th., 11; S., 11 and 12. MR. JONES

16b. (Education 16b) Principles of Education. A survey of the aims, responsibilities, and general methods in education.

Half course, second semester. W., 11 and 12; F., 11.

To be omitted in 1935-1936.

MR. JONES

[17b. (Education 17b) Philosophical and Historical Foundations of Modern Education. A study of the historical development and philosophical bases of modern educational policies and practices.

Half course, second semester. W., 11 and 12; F., 11.

To be offered in 1935-1936.

MR. JONES]

19a. (Education 19a). Psychology of Character. A survey and critical evaluation of the experimental evidence in the field and its application to education for character and citizenship. (Graduate students may register for two hours' credit and attend only the two hour meeting on Saturday.)

Half course, first semester. Th., 11; S., 11 and 12. MR. JONES

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

[203a. Reflex Activity. Spinal, postural, and conditioned reflexes as components of behavior; the rôle of autonomic activity in conduct; emotional responses.

Two hours, first semester. Th., 4.

MR. GRAHAM]

To be offered in 1935-36 and in alternate years.

[203b. Quantitative Interpretation. General principles used in quantitative treatment of psychological and physiological data. The problem of test of hypothesis by quantitative methods.

Two hours, second semester. Th., 4.

MR. GRAHAM]

To be offered in 1935-36 and in alternate years.

[Biology 204. Seminar in the Structure and Function of Central Nervous Systems. (For description see announcement of Department of Biology.)

Biology 205. Seminar in Experimental Biology. (For description see announcement of Department of Biology.)

206. Animal Behavior. A study of the topics of instinct, habit formation, sensory processes, and the higher adaptive forms of behavior. Prerequisite 2 courses, 11 and preferably 12.

Two hours, through the year. Tu. Th., 10.

To be omitted in 1935-1936.

MR. HUNTER

[207a. The Learning Process. A critical and experimental study of the chief problems of learning and memory. Prerequisite 2 courses, 11 and, preferably, 12.

Half course, first semester. M. W. F., 10.

MR. HUNTER]

NOTE: By vote of the Graduate Board students interested in Education and Educational Psychology may, upon the approval of their major department, and through special arrangement with the instructor in the course, take courses in Education numbered 14a, 15b, and 19a for graduate credit.

3. PRIMARILY FOR GRADUATE STUDENTS

[301b. Seminar in the Principles of Psychology. A comparative study of systems of psychology with particular reference to structuralism, functionalism, and behaviorism.

Two hours, second semester. M., 11-1.

MR. HUNTER]

To be offered in 1935-36 and in alternate years.

304. Departmental Seminar. Devoted to the study of selected topics in current psychological literature. Required annually of all students *majoring* in psychology for advanced degrees.

Through the year. W., 4.

THE STAFF OF THE DEPARTMENT

305. Research. Intended primarily for graduate students engaged in research for the doctor's degree.

THE STAFF OF THE DEPARTMENT

Biology 306. Mechanisms of Reaction. (For description, see announcement of Department of Biology.)

[310. Child Behavior. This course will consist of a critical examination of the literature bearing on the experimental investigation of child behavior.

Two hours, through the year. F., 4.

MR. MURCHISON]

311. Social Psychology. A systematic survey of social behavior ranging from the group behavior of microscopic organisms to the complex phenomena of human culture groups.

Two hours, through the year. F., 4.

MR. MURCHISON

313a. (Education 313a). Advanced Educational Psychology: Group Methods of Experimentation. The purpose of the course will be primarily to give practice in the most valuable statistical methods for psychological experimentation.

Two hours, first semester. Tu., 4:20.

MR. JONES

314b. (Education 314b). Advanced Educational Psychology: Tests and Measurements. A systematic and critical survey of psychological tests. Both theoretical and applied aspects of testing will receive consideration.

Two hours, second semester. Tu., 4:20.

MR. JONES

316. Receptive Processes. The functions of the various sense departments: vision, audition, smell, taste, pressure, pain, temperature, and kinesthesia.

Two hours, through the year. Th., 4.

MR. GRAHAM

DEPARTMENT OF ROMANCE LANGUAGES

PROFESSOR CHURCHMAN, ASSISTANT PROFESSOR DOUGHERTY

See the statement of the general requirement in foreign language, for all candidates for the A.B. degree in the announcement of the Undergraduate Division.

The French courses are planned with the following ends in view: French 11 and 12 are the basic language courses. To the student who has completed 12, courses 13 and 14 offer respectively an option between a continuance of general language work and a course limited to translation and literature; both may be taken. Those who wish to continue the study of literature after taking 14, will take course 114, followed by the courses in which the literature is studied intensively. Those interested primarily in the study of the language will take 13 and then 17, the latter being especially valuable for prospective teachers of French, for whom course 101a, The Teaching of Modern Languages, may also be of interest.

A major or a minor in Romance languages may be made up from any reasonable sequence of the courses on the level of 13 or 14 or above. French 11 and 12 and Spanish 11 may not be counted for a major or a minor without the consent of the Department.

COURSES IN FRENCH

1. PRIMARILY FOR UNDERGRADUATES

11. For Beginners. Emphasis on reading ability. Incidental aural, oral, and written work. Indivisible course.

Open to freshmen.

Through the year. M. W. F., 10.

To be omitted in 1935-36.

MR. CHURCHMAN

12. Intermediate. Extensive reading, exercises in composition and pronunciation. Prerequisites, French 11 or two years of high school French. Indivisible course.

Open to freshmen.

Through the year. Tu. Th. S., 8.

MR. DOUGHERTY

NOTE: *Courses 13 and 14 are of equal difficulty. Either may be taken upon the satisfactory completion of French 12 or three years of high school French.*

13. Composition and Pronunciation. The objective of this course is the correct writing, pronunciation, and aural comprehension of present-day French.

Open to freshmen, subject to the approval of the instructor.

Through the year. Tu. Th. S., 9.

MR. DOUGHERTY

14. Readings in French Literature. The aim of French 14 is two-fold: the attainment of facile reading ability, a general view of modern French literature based upon a detailed study of ten works of representative authors.

Open to freshmen.

Through the year. M. W. F., 10.

MR. DOUGHERTY

114. General View of French Literature. A unified and fairly complete account of French literature from the beginning to the present time. Prerequisite, course 14.

Through the year. Tu. Th. S., 10.

MR. CHURCHMAN

NOTE: *The courses in literature listed below are offered each year to qualified students as private conference courses, devoted to wide reading by the student along lines suggested by his own preferences but under guidance by the instructor in weekly conferences. A short thesis is required in each semester. Before undertaking any of these courses it is ordinarily assumed that the student will have successfully completed French 114 and will have given evidence of ability to do advanced work by himself.*

15. Literature of the Seventeenth Century.

MR. DOUGHERTY

115. Literature of the Middle Ages.

MR. DOUGHERTY

16. Literature of the Nineteenth Century.

MR. CHURCHMAN

116. Literature of the Sixteenth Century.

MR. CHURCHMAN

19. Literature of the Eighteenth Century.

MR. DOUGHERTY

119. Contemporary Literature.

MR. CHURCHMAN

[17. Phonetics, Advanced Composition and Oral Work. Intensive linguistic work for intending teachers and other advanced students. Prerequisite, course 13.

Through the year. M. W. F., 10.

MR. CHURCHMAN]

Offered in alternate years. Omitted in 1934-5.

101a. (Education 101a). The Teaching of Modern Languages.

A study of the major problems in the teaching of French. Incidental references will be made to German and Spanish. Prerequisite, third year college French or German course, taken previously or at the same time.

One third of a course, first semester. W., 4:20-6.

MR. CHURCHMAN

COURSES IN SPANISH

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary. Carefully graded reading; exercises in grammar and pronunciation. Attention is paid to the artistic and cultural achievements of Spain. Indivisible course.

Open to freshmen.

Through the year. M. W. F., 11.

MR. DOUGHERTY

12. Intermediate. Combination of readings from Spanish literature with more advanced study of the language, oral and written. Prerequisite, course 11 or two years of high school Spanish.

Open to freshmen.

Through the year. Tu. Th. S., 10.

MR. CHURCHMAN

To be omitted in 1935-6.

DEGREES CONFERRED

In the Calendar Year 1934

BACHELOR OF ARTS

Alfred William Anish
Robert Bruce Atwood
Arthur Richard Backstrom
Arthur Julius Barkhouse, Jr.
Saul Bassinov
Harold Mason Bishop
William Biggar Brierly
Maurice S. Brooker
Philip Edward Butler
Thomas Patten Carpenter
(With Honor)
Hugh Daniel Clark
Edward Richard Collins
Lloyd Eager Crane
Joseph Daniel Downey
Ralph Fletcher Ellis
Edward Lester Forrest
Wellington Armstrong French
Cleon Goodrich Gallagher
Boynton Graham
(With High Honor)
Vincent Paul Gruzdzis
(With High Honor)
Everett Merritt Hemenway
Walter Henricks Hodge
Richard Norman Holter
Charles Francis Johnson
Wendell John Johnson
Kenneth Abraham Kaneb
Donald Allen Kayer
Paul John Lehtinen
Herbert Towle Leighton
George Levine

Saul Malkiel
Byron Francis McCauley
Paul Francis Moss
James Stewart Nelson
Ernest Victor Oberg
John Francis O'Connor
Roy August Ohrn
James Bernard Reynolds
Toivo David Rosvall
(With Honor)
William Franklin Russell
(With Honor)
Jordan Philip Sandman
Gordon Ralph Milton Shachoy
Roland Francis Shappy
Elias Slopak
Lyndwode Norton Lee Smart
Nathan Joseph Smith
A. Joseph Smithline
Russell Paul Talbot
Paul Wilbur Tappan
(With Honor)
Berge Charles Tashjian
Richard Colton Taylor
Stanley Glendon Turner
Donald Albert Walker
Roland John Westerholm
Howard Glenn Whitman
Frederick Howard Wilder, Jr.
Sydney Edward Wilson
Benjamin Carl Young
Myer X. Zarrow

BACHELOR OF EDUCATION

Mary Frances Delaney
Katherine Rita Feeley
Selma Konold Illingworth
Alice Josephine Lee

Mildred Agnes Lombard
Elizabeth Sherlock McManus
Helen Gertrude Moran
Mary Elizabeth Nagle

MASTER OF ARTS

Agnes Morgan Allen	George Mulvey
Carl James Blomfield	Ruben LeRoy Parson
Robert Gifford Brearley	Rafael Picó
John Norman Carls	Lorin Andrews Riggs
Fred. Joseph Collins	Virginia Mae Robinson
Dorothea Marie Duprey	Morton Albert Rubin
Margery Duff Howarth	Philip Edward Ryan
Walter Grant Inman	Ilmari Fritiof Salminen
Edith Rose Kaufman	Mary Winifred Smith
Kathleen Mary Kennedy	Althea Catherine Stautz
Willis Lorenzo King	Leften Stavros Stavrianos
Urho Korpi	Frank Paul Stevens
Toivo Matthews Laakso	Oliver Emil Sundberg
Jacob Lotven	Robert Albert Tangney
Eugene Herbert Miller	Irwin Morris Tobin

DOCTOR OF PHILOSOPHY

Adelbert Kenneth Botts	Guy Scott Herrick
Albert Bickmore Corey	Forrest Robert Holdcamper
Gordon Gerald Darkenwald	Harry Wendell Karn, Jr.
Sidney Everette Ekblaw	Edward Harris Kemp
Albert Clarence Erickson	George Tatham
Joshua Sullivan Gibson	

SUMMARY

Bachelor of Arts	59	Master of Arts	30
Bachelor of Education	8	Doctor of Philosophy	11

REGISTER

Names of students are grouped in three lists. I, those who registered in either semester of 1934-35, II, those who attended the 1934 Summer School, and III, extension students.

Explanation: S—scholar; F—fellow; HF—honorary fellow; numerals 35, 36, 37 and 38 are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; B—biology; Ch—chemistry; EC—Economics and sociology; En—English; G—geography; Gl—geology; Ger—German; H—history and international relations; M—mathematics; Ph—physics; Ps—psychology; RL—romance languages.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

This list includes the names of all who have matriculated and registered. An asterisk (*) indicates that the student has withdrawn from the University prior to March 1, 1935. A dagger (†) indicates enrollment for the second semester only.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Abodecely, Robert Assad	36		530 Grafton
Adamian, Parnag Gabriel	38		21 Edward
*Adams, Lambi Nicholas	Ch g		105 Millbury
Adams, Wesley Lyall	37		64 Windsor
Adams, Willard Granville	37	Holden	
Allan, Walter Scott	35	Auburn	35 Queen
Allen, Edward Searle	37	Westfield	35 Maywood
Allen, Fred Horn	G F	Cloverdale, Ind.	4 Hancock
Arnold, Samuel Leonard	38		148 Elm
Arsenault, Philip Elwin	35		43 Lyman
Ashworth, Jessie Ellen	H F	Orono, Me.	6 Norwood
Backstrom, Arthur Richard	Ch S	Auburn	
Baharian, Bedros	38		9 Cottage
Baldwin, Joseph Vincent	36	No. Wilbraham	Estabrook Hall
Ballentine, Robert Gerould	H S	Lewisburg, Pa.	3 Maywood Pl.
*Barber, Miriam Inez	En s		205 May
Baxter, Frederic Gregory	Ec s		44 Sagamore Rd.
Bedrosian, Kapriel	Ps g		80 Elm
Beeber, Raymond Alton	35		14 Dover
Beitel, Robert James, Jr.	Ps F	Catasauqua, Pa.	2 Woodbine
Berg, Carl Gustaf	36		843 Millbury
Bernstein, Benjamin	38		38 Bowdoin
Berthiaume, Gerard Mandeville	35	Spencer	
Betinis, William John	38	Marlboro	Estabrook Hall
Betten, Morris	37		14 Jones
Bibeau, Delphis, Jr.	36		303 Cambridge
*Bingham, Thomas Francis	36	Nashua, N. H.	4 Downing
Bjorkman, Evelyn Josephine	H g		8 Hooper
Black, Lloyd Deacon	G S	Scarsdale, N. Y.	25 Shirley
Blair, Robert Myron	38		1 Holland Rd.
Blake, Nelson Manfred	H F	Gardner	6 Charlotte
Blanchard, Donald	38	Stoneham	Estabrook Hall
Blanchard, John Putnam	38	Spencer	
Blanchard, Willard Francis	37	Millbury	
Blaney, Cyril Chandler	36	Westford	
*Bliven, David P.	En s		8 Wyman
Bliven, Roger	37		31 Tallawanda Dr.
Boesch, Hans Heinrich	G F	Zurich, Switzerland	31 Tallawanda Dr.
Boin, Victor Paul	37		6 Downing
Bolduc, Robert Aime	35		129 Eastern Ave.
*Brandes, Frederick Millea	37		7 Chrome
Brauer, Murray	37		106 Elm
†Brierly, William Biggar	G g	Millbury	750 Pleasant
Broad, Jacques Leon	37	New York, N. Y.	
Brosnihan, Andrew Joseph	36		7 Harvard
Brothers, Harold Barnard	37		127 Puritan Ave.
Brown, Earle, Jr.	35		50 Arthur
Brown, Robert Heath	Ps F	Ames, Iowa	77 Elm
Browne, Sydney James	38	Providence, R. I.	2 Woodbine
Brulé, Irving William	38		Estabrook Hall
Burnham, Robert Henry	37	Ayer	1319 Main
Burns, Kathleen Mary	H g		185 Highland
Burt, Arthur Lowe	38		38 Tales
Burton, Charles Jewell, Jr.	37		46 Beaver
Burwick, Maurice Julius	35	Fitchburg	
Butler, William Frank, Jr.	36		10 Melville

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Caplovich, Jerome	33	Southbridge	
Carls, John Norman	G F	Virginia, Ill.	25 Shirley
Carlson, Ralph Ludwig	38	Paxton	
Carminati, Dominick Joseph	Ps g	Niagara Falls, N. Y.	20 Gates
Carpenter, Philip Lattimore	35	New London, Conn.	49 Florence
Carroll, Arthur Wheeler	35	Barre	Estabrook Hall
Carruthers, John Burr	38	Frammingham	
Castaldi, Basilio	36	Boylston	
Chainé, Jean Oliva	Ec g		122 Franklin
Channon, Eric Gordon	38	Providence, R. I.	Estabrook Hall
Chapin, Milan Adelbert	Ch F	Bethel, Maine	2 Woodbine
*Chouinard, Albert Eugene	38		5 Agawam
*Chupas, Vincent Joseph	38		50 Upsala
Churchman, Frances Morgan	Ps S		20 Institute Rd.
Clark, Burton Everett	35	Sutton	
Clark, William Charles	38	Northboro	Estabrook Hall
Coddington, Edwin Broughton	H g	Milwaukee, Wisc.	21 Shirley
Cohn, Charles Baer	35	Allston	4 Hancock
Colangelo, Robert C.	Ec g		5 Norcross
Cole, Hubert Morton, Jr.	35	Springfield	Estabrook Hall
*Comber, Irving Harold	38	Holyoke	Estabrook Hall
*Conant, Alvah James	35		30 Hartshorn Ave.
Convery, James Francis, Jr.	37		29 Princeton
Cotton, Lois Alice	H S		116 Alvarado Ave.
Cotzin, Milton	38		40 Woodford
Cotzin, Sumner Burton	38		132 Russell
Crane, Lloyd Eager	Ec S		1 Shirley Ter.
*Cutler, Norman Giles	35	West Brookfield	
Dahl, Randle Edwin	Ec F	Brooklyn, N. Y.	166 Woodland
Damarjian, Aram	38		25 Bancroft
Danckert, Joseph Francis	38		5 Gordon
Danstedt, Rudolph Theodore	Ps g		171 Belmont
Davis, John King	37	Webster	
Davis, Murray Saul, Jr.	38	New Rochelle, N. Y.	Estabrook Hall
Davis, Wendell Woodworth	27		16 Fiske
Delano, David Prentice	37		62 Holden
De Lollis, Nicholas John	38		14 Liscombe
Denmark, Hyman Samuel	Ph S	Holyoke	4 Downing
Derber, Milton	36	Springfield	21 Grand
Desjardins, Lucien H.	M s		52 Assumption Ave.
*Dewar, Margaret Helen	Ps s		94 Lakewood
*Dobie, Albert Joseph	H g		25 Devens Rd.
Domblatt, Herman William	35		17 Hitchcock Rd.
Dombrosk, Harry Frederick	35		139 Austin
Donaher, J. Francis	Ch s		6 Irene
Dooley, Norma Adams	H g	Marlboro	51 Witherbee
Dorn, Frank	36		75 Providence
Eames, Robert Porter	36	Wallingford, Conn.	Estabrook Hall
†Eastman, Karl Dey	Ger s	Amherst	21 Maywood
Eckstein, H. Philipp	38	Weehawken, N. J.	Estabrook Hall
Elias, Stephen	37		98 Austin
Erickson, Franklin Carl	G F		15 Forestdale Rd.
Erickson, Irving Peter	37		15 Forestdale Rd.
Erickson, Roland Axel	35		479 Park Ave.
Fairchild, Johnson Eddy	G g	Glen Ridge, N. J.	189 Beacon
Fairman, Alonzo Bruce	36	Springfield	35 Richards
*Fielding, Harry Samuel	38		8 Maplewood Rd.
Finer, Harold Mitchell	36	Dorchester	898 Main
Fink, Marvin Samuel	36	New Britain, Conn.	4 Hancock
Fitzgerald, Harold Joseph	Ec S	Draper, Utah	9 Oread Pl
*Fleming, Gordon Hamilton	38	Grafton	
Fleming, Raymond Edgar	38		2 Pakachoag
Fletcher, Ray Foley Bentley	38	Westboro	
Fletcher, Thomas Lloyd	37		125 Grand View Ave.
Fletcher, William Glover	36	Brookfield	
*Fortier, Quincy Ernest	37	Shrewsbury	
Fox, Edward Thomas, Jr.	Ec s		4 Hackfeld Rd
*Freundlich, Bernard	38	Winthrop	Estabrook Hall
*Gaston, David Finis	38	Grantwood, N. J.	Estabrook Hall
Gauthier, Armand Joseph	38		925 Main
George, Gordon Bennett	36	Westboro	
Gibbs, Robert Grant	38		7 Ruthven Ave.
Gibson, William Marvin	Ec g		42 Mason

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Gifford, Roger Gaillard	36	Passaic, N. J.	80 Florence
Giraitis, Albert Philip	Ch g	Hartford, Conn.	6 Birch
Glaude, Paul Marcel	35	Biddeford, Me.	38 Crystal
† Gleason, Hartley Clifford	38		46 Chamberlain Pkwy.
Glidden, Walter D.	35	Nantucket	70 Downing
Glover, Everett Dow	37	West Millbury	
Goff, Joseph Nathaniel	38		97 Granite
Goldberg, Edwin Louis	37		543 Grafton
Goldberg, Simon	38	Salem	Estabrook Hall
Goldenberg, Alfred	35		94 Cutler
Goldman, Rosaline	Ps S		9 Lamar Ave.
Goldrosen, Ephraim	37		445 Lake Ave.
Gordon, Jacob	37	Dorchester	21 Grand
Gordon, Samuel	37		85 Granite
Gould, David Marshal	35		59 Vale
Goulding, John Paul	35	Leicester	
† Grady, Gertrude Esther	G S		3 Hitchcock Rd.
Graham, Arthur Robert	35		14 Lewis
Granger, Rocheleau Zephirin	38		4 Gates
* Grant, Robert Donald	36	Paxton	35 Maywood
Gray, William David	38	So. Manchester, Conn.	Estabrook Hall
Green, Arnold Wilfred	37	Three Rivers	Estabrook Hall
Green, Frances	Ec g	Shrewsbury	6 Chatham
Grodberg, David Abraham	36		142 Elm
Grodberg, Emil Hirsch	Ec F		142 Elm
Grout, Milton Lory	35		83 Olean
Grout, Vernon Marshall	38		83 Olean
Gryk, Anthony John	38	So. Manchester, Conn.	Estabrook Hall
Guterman, Henry Samuel	37		15 Tahanto Rd.
Hagemann, Hans Heinrich	35	Hackettstown, N. J.	Estabrook Hall
Hall, George Edward	37	Millbury	
Hall, Oliver Richard	35		12 Hanson Ave.
Hanna, Archibald, Jr.	38		12 Perkins
Hansen, Robert Eugene	37		8 Ericsson
* Harding, Kenneth Clark	En s		7 West Oberlin
Hargrove, Harold Gordon	37		76 Moore Ave.
Hastie, Donald Williams	38	Cheshire, Conn.	Estabrook Hall
Haworth, Lawrence Alanson	37	Dalton	18 Shepard
Healey, Lawrence Patrick	36		100 Fairmont Ave
* Henault, Ernest Omer	38	Webster	
Herrmann, Frank Clifton	38	Northboro	
* Hershman, Max	37	Dorchester	Estabrook Hall
* Hickey, Francis M.	Ch s		54 Upsala
Hirtle, John Richard	35	Brookfield	
Hoag, Charles Leonard	H F	Eaton Rapids, Mich.	27 Florence
Hoar, Walter Ahaesy	35		23 Gates
Hodgkins, Alfred Sawyer	36		6 Silver
Holmgren, Axel Verner	Ch F		34 Ames
Holstrom, Andrew Gustaf	37	Auburn	
* Hopewell, Robert Dudley	37		12 George
Horne, Glendon Cloyes	36	Shrewsbury	
Hulbert, Kenneth Lee	36	Westboro	
Hunt, Joseph McVicker	Ch s	Scottsbluff, Nebr.	
Hunter, George Alexander	38		10 Glenwood
* Huston, John Charles	37	Shrewsbury	
Huston, Paul Eger	Ch s	Shrewsbury	
Hutchinson, Joseph Carleton	37	Haverhill	Estabrook Hall
Iltanen, Jorma	38		5 Heardsleigh
Inman, Walter Grant	H F	Indianola, Iowa	166 Woodland
Jaffray, Archibald Hidley	38	Brookfield	
Jannery, Harold Kenneth	37	Millbury	
* Johansson, John Gabriel	H s	Gardner	
Johnson, Austin Simon	36	S. Manchester, Conn.	4 Norwood
Johnson, Charles Francis	Ec S		54 Standish
Johnson, Lincoln Merton	38		26 Stockton
* Johnson, James Irving	Ch s		23 Conway
Kanowitz, Sidney	37	Chester	6 Charlotte
Kaufman, Edith R.	Ec F		9 Commodore Rd.
* Keeler, Marston Whitin	s	Whitinsville	
Keenlyside, William Mawhinney	H S	Vancouver, B. C.	166 Woodland
Keith, John Robert	36	Warren	
Kellie, Charles Clark	38	Waterbury, Conn.	Estabrook Hall
Kelly, Thomas Herman	38		49 Coolidge Rd.
Kennan, Dana Willard	37		157 Highland

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
†Kennedy, Anne Pauline	G S		3 Channing Way
Keown, Arthur Dwelly	H g	Wilkinsonville	
Kesner, Mitchell	38		45 Mendon
Kimball, Roland Charles	36	Westboro	
King, Willis Lorenzo	H g	So. Lancaster	
Kirkendall, Walter E.	G S	Los Animas, Colo.	25 Shirley
Kneller, John William	38		1 Russell
Knight, Albert Edwin	38		19 Rollinson Rd.
Kopelman, Bernard	38	Dorchester	
Kroll, Henry Michael	38	New York, N. Y.	Estabrook Hall
Krzinowek, Alfred Joseph	37	Rutland	42 Jacques Ave.
Laine, Iver	36		6 Vilander
Landry, Raymond Edward	38		22 Indian Lake Pkwy.
Langenheim, William James	38	Brookline	Estabrook Hall
Laskoff, Leo Lawrence	36		17 Windsor
Laverty, Alfred	38		5 Amesbury
Lavine, Hymen	36	Boylston	
Lax, Martin	36	Dorchester	6 Charlotte
Lenat, Ralph Warner	37	Spencer	
Letendre, Donald Henry	38	Spencer	
Levine, Jacob	36	Dorchester	
Lewis, William Lloyd	37		21 Strathmore Rd.
Leyden, Philip John	36	Springfield	Estabrook Hall
Lidstone, Reginald David, Jr.	38		8 Catalpa
†Lim, Pong Choon	G g	Kong-Ju, Korea	766 Main
Linthicum, Thomas Hopkins	38	New York, N. Y.	Estabrook Hall
Lisabitsky, Joseph	38		100 Granite
Lisk, George Francis	35	Millbury	
Lodding, Woodrow Charles	37		30 Terrace Dr.
Logan, Richard Fink	36	Stratford, Conn.	Estabrook Hall
Lopatin, Colman	36	New Haven, Conn.	8 Lucian
Lotz, William Albert	Ec g		4 Dellwood Rd.
*Love, Elizabeth Perry	G S	Auburn	2 Chamberlain Pkwy.
Love, John Joseph	38	Webster	
Lupien, David William, Jr.	37		162 Heard
MacArthur, Harvey Heywood	35	Sterling	
MacLean, C. Blair	Ps s	No. Leominster	
McCarron, Andrew Thomas	36		66 Dover
McCarthy, Andrew Francis	38		77 Fox
McGrail, James Joseph	Ec g		311 Main
McInnis, Donald Harry	38		439 Chandler
*McReynolds, George Edgar	H F	Clinton, Ind.	15 Gates
Madorsky, Milton Eugene	38	Springfield	Estabrook Hall
*Magarian, Robert	38		116 Belmont
Maher, John William	36		8 Hadwen Lane
Maher, William Joseph	36		8 Hadwen Lane
Mahoney, Marie Patricia	H g		18 Sturgis
Manoogian, Michael	36		104 Belmont
*Marchant, William Everett, Jr.	RL s		11 Hudson
Marden, Douglas Wyman	38	West Boylston	
Marsh, Carl George	37		1 Ball
Mason, Carol Young	G F	Milwaukee, Wisc.	41 Beaver
Matchett, Gerald James	Ec S	Grand Jct., Colo.	11 Loudon
May, Louis Henry	36	Keene, N. H.	Estabrook Hall
Melville, Robert Seaman	37		16 Isabella
Menard, Roland Joseph	35	Spencer	
Meyer, Robert Sanford	37	Springfield	4 Hancock
†Michie, Forbes Stuart	38		10 Military Rd.
†Mikelk, Franz Stanley	37	Gilbertville	
Miles, Robert Albert	36		6 Hancock
Miller, Eugene Herbert	H F	Reading, Pa.	114 Woodland
Millman, Nathan	36	Springfield	898 Main
Minogue, James Alexander	G g	Duluth, Minn.	12 Grand
Mintz, Evrom	36		7 Woodford
Moberg, Wensel William	38		4 Dybeck
Mollo, John Anthony	38		20 Millbrook
Montague, Richard Armsby	37	Millbury	
Moody, Frederic William	37	Leicester	
Moore, Norman Buck	35	Sterling	
*Moore, Robert Lindo, Jr.	36		46 Queen
Moquin, Henry Joseph	Ch s		Assumption College
Morasco, Francesco Michael	38, s	Grafton, W. Va.	Belmont Hospital
Nally, William James	38	No. Grafton	
Nathanson, Norman Joseph	38	Norwalk, Conn.	Estabrook Hall
Nelson, Carl Elmer	37	Milton	35 Maywood

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Nelson, James Stewart	G g	Holden	
Nelson, Rodney Eric	38		106 W. Boylston
Nelson, Wilfred Albert	36		30 Whipple
*Newcomb, Drew Arnold	38	West Boylston	
Newsman, Sidney Harold	Ps F	Danville, Va.	6 Hancock
Newton, Albert Eugene	37	Windsor, Vt.	1 Maywood Pl.
Noble, Otis More	37	Jersey City, N. J.	Estabrook Hall
Norman, Paul Pheneas	38	Malden	Estabrook Hall
Nystrom, John Warren	36		40 Eunice Ave.
†O'Connor, Delia Gertrude	G g	Spencer	
O'Neil, Richard James	35	Garden City, L. I., N. Y.	Estabrook Hall
Ordway, Robert Shaw	36		1017 Main
*Orr, Helen Ager	RL s		11 Hawthorn
Ortman, Joseph	37		64 Beaver
Palmer, Franklyn George	35	Springfield	16 Shirley
*Parson, Ruben L.	G F		4 John
Parker, Harry Clarence	G g	Durham, Conn.	4 Richards
Parmelee, Richard Clark	36	Holden	
Parmiter, Charles A., Jr.	H g		17 Havana Rd.
Parslow, John Barr	38	Battle Lake, Minn.	12 Grand
Patterson, Frank Harmon	37	Bristol, Conn.	Estabrook Hall
Pearson, Arthur Hilman	37	Brookfield	
Peltier, Louis Cook	37	West Boylston	39 Charlotte
Perch, Emmanuel	37		110 Chandler
*Perkins, Frederick Thomas	37		6 Birch
Ferman, Maxwell Louis	35		63 Russell
Perry, Joseph Leo	37		4 Ashton
Person, Robert	37		19 Fiske
Pervere, John Maurice	37	Greenfield	35 Maywood
Peters, George Michael	38		9 Eastham
Petke, Frederick Edward	Ch S	Thomaston, Conn.	13 Gates
Phillips, George T.	Ps S	Cleveland, O.	20 Gates
Pierce, John Hewett	36		15 Berwick
*Plotkin, Abraham	36		59 Arlington
Pollack, Malvin Max	37	Haverhill	Estabrook Hall
Pomerat, Gerard R.	36	W. Springfield	914 Main
†Pomeroy, Everett Graham	36	Sunderland	176 Fairhaven Rd.
Popowicz, Walter Thomas	37		28 Washington
Porter, David	37		28 Woodford
Porter, David Russell	35	Wellesley	
Potter, Laurence Everett	37	Nashua, N. H.	35 Maywood
Pottle, Irwin Davis	38	Oxford	
Prescott, Milton Edwin	35		110 North Parkway
Pride, George Howard	36		1004A Main
*Pyle, John F.	G S	Beaver, O.	12 Grand
Racicot, Theodore Peter	38	Webster	Estabrook Hall
Rapaport, Harry	37	Marlboro	
Ravitz, Louis Arnold	36		138 Elm
Richardson, Horatio Maunsell	37		115 Paine
Richer, Raymond C.	Ec g	Westboro	
Richmond, Mark Stanley	36	So. Hanover	5 State
Riggs, Lorrin Andres	Ps F		4 Woodbine
Riley, James Lewis	35		38 Burncoat
Riley Paul Ward	37		194 Ingleside Ave.
†Riley, Robert Francis	G s		194 Ingleside Ave.
*Ring, William Joseph	Ch s		10 Lucian
†Rinta, James	En s	Jervajoki, Finland	34 Belmont
Ristow, Walter William	G F	La Crosse, Wisc.	25 Shirley
Rochette, Robert Phillips	36		15 Colonial Rd.
Rogatnick, Joseph Hirsch	38	New York, N Y.	Estabrook Hall
Romanoff, Saul Mones	37	Clinton	
Rosenberg, Robert Mac	38	Webster	
*Ross, Harold William	36	Spencer	Estabrook Hall
Rothera, Ralph Edward	36		16 Caro
Roy, Eric Arthur	38		41 Chatham
Rubin, Morton Albert	B F	Roxbury	44 Maywood
Rumery, Kenneth Allen	38	Charlton	
Ruseckas, Vincent Peter	38		117 Washington
Russell, Roger Wolcott	35		22 Holland Rd.
Russell, William Franklin	H S		147 Coolidge Rd.
Russell, William James	38	Clinton	
Salminen, Ilmari Fritiof	Ch F	Hubbardston	
Schorr, Stanley Alvin	37		18 Hartshorn Ave.
Schreiber, Frederick Alfred	H S	Portland, Me.	166 Woodland
Serijan, Kasper Thomas	36		35 Lincoln

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Shanbaum, Samuel	36	Clinton	
Shapiro, Leon Marshall	37		11 Hillside
Sharrett, Ralph Louis	35	Bristow, Va.	Estabrook Hall
Shaw, Paul Frederick	38		12 Intervale Rd.
Shea, Daniel Joseph	37		11 Windham
†Sherman, Walter Roberts	Ch s		35 Maywood
Shields, Richard James	38		139 Elm
Simpson, Robert B.	G F	Grand Forks, N. D.	25 Shirley
Simonds, William Albert	37		66 Lovell
Smith, Joseph Roy	Ps F	Verona, Pa.	2 Woodbine
Solomon, Abraham	36		7 So. Stowell
†Sommerman, Stephanian Maniosky	Ec g		20 Ripley
Spencer, Charles Ellis	Ch s		132 Coolidge Rd.
Spencer, Chester Arnold	36		47 Wyola Dr.
Spencer, Robert Alfred	38		1 Ericsson
Spencer, Roger Burgess	35		14 Quinapoxet Lane
Stavrianos, Leften Stavros	H F	Vancouver, B. C.	166 Woodland
Stead, Albert Theodore	38		16 Sigel
Steinhilber, Otto William	35	Shrewsbury	
*Stephan, Leon Le Mar	G F	Bowling Green, Ky.	
Stevens, Margaret Elizabeth	G F	Burton, O.	41 Beaver
*Stevens, Thomas Risley	37		33 Alsada Dr.
Stewart, Kenneth Howard	36		11 Hammond
Stimson, William Thomas	37		34 Outlook Dr.
Stockman, Harlan Wheelock	37	Dodge	
Stratton, Harold Linson	Ch s		28 Circuit Ave.
Styles, Joseph Albert	B S		159 Cambridge
Sukaskas, Vitold	35		18 Hillside
Sullivan, Frank David	38		115 Lincoln
*Sundberg, Oliver Emil	Ch F	Gardner	
Sundeen, Earl Ivan	37		48 Channing
Syrocki, Boleslaus John	B S	New Britain, Conn.	68 Woodland
Tacker, Herbert Ralph	37		33 Lincoln
Taylor, Robert Clark	37	Stoneham	35 Maywood
Terio, Oiva Axel	36	Rutland	
Terrill, Irving William	37		23 Oberlin
Titus, Howard Andrews	37	East Morris, Conn.	1 Maywood Pl.
Toman, James Edward	37	Manchester, Conn.	Estabrook Hall
*Toy, Charles Mallery	Ch s	Chesapeake City, Md.	21 Catherine
Trumbull, John Thomas	35	Chicopee Falls	4 Woodbine
Vaitkus, John Walenty	37		41 Newbury
Valatka, Joseph August	38		40 Plantation
Varg, Paul Albert	35		67 Windsor
Vinciguerra, Edmund Albert	36	Bridgeport, Conn.	978 Main
Warner, Carlos Hazelton, Jr.	37	Utica, N. Y.	Estabrook Hall
Warren, Arthur Bertrand	37		117 Beaconsfield Rd.
Waskiewicz, Peter Francis	37	Warren	925 Main
Watchorn, Arthur Walter	36	Millbury	
Waxler, Samuel	37		15 Brantwood Rd.
*Weston, Joseph Fitz Randolph	38	Boston	Estabrook Hall
Wheaton, Philip Damon	38	Putnam, Conn.	Estabrook Hall
*White, Francis William	37		13 1/4 Kilby
White, Robert Francis	37	Millbury	
Whitehouse, Karl Chism	Ch F	Abington, Conn.	166 Woodland
Wilder, Arthur Stanley	36		3 Bernice
Williams, Arthur Robert	35	Dalton	Estabrook Hall
Williams, Joel	37	Dorchester	
Wilson, Walter C.	Ec F	Reno, Nev.	766 Main
Witkiewicz, Joseph Vincent	B s		52 Millbury
Wolkowich, Haskell Philip	38		27 Loxwood
Yetvin, Irving Jack	38		27
Youngquist, Lincoln Roy	36		47 Marion Ave.
Zarrow, Myer X.	B s, S	Millbury	Sterling

EXTENSION STUDENTS

1934-35

Adshead, Mona
Alden, Clara L.
Amidon, Dorothy A.
Arms, Dorothy B.

Babson, C. Amy
Bacon, Ruth I.
Baldwin, Waterman
Barclay, Mary E.
Berens, Maria M.
Boson, Svea
Bowen, Doris M.
Boyle, Harry A.
Branch, Elizabeth
Brown, Alice
Brown, A. Jean
Bryant, Nellie J.
Buckley, Frances G.
Buckley, Helen T.

Cahill, Anna G.
Cahill, Catherine M.
Campbell, Marion M.
Carlson, G. Virginia
Carney, Grace L.
Chace, Eleanor F.
Clark, Winifred R.
Coe, Elizabeth H.
Coffey, Grace C.
Cole, Barbara
Collamore, Lillian A.
Cone, Mary M.
Cook, Oliver R.
Cunningham, Helen M.
Cunningham, Mary E.
Curtis, Bertha M.

Daley, Mary A.
Daniels, Jeanne
Donahue, Katherine C.
Donnelly, Mary T.
Doyle, Margaret M.
Drawbridge, Inez A.
Duggan, Helen G.
Dumphy, Irene E.

Early, Mary
Eaton, Louise S.
Edwards, Ruth
Elliott, Alice E.
Erikson, Viola B.

Feeley, Katherine R.
Fisher, Mary B.

Galvin, Della E.
Gardyne, Dorothy A.
Giblin, Dora M.
Gilgan, Mary A.

Ginn, Addie M.
Gist, Nathan H.
Goodale, Arnold P.
Gribbons, Everett J.
Grodén, Anna R.
Grodén, M. Mildred
Guerin, Katherine H.

Hall, Evelyn J.
Hays, Janet C.
Hodgkins, Virginia W.
Illingworth, Reginald G.
Illingworth, Selma K.

Kennedy, Winnifred C.
Kenney, Helen
Killeen, Florence F.
Kilton, Dorothy G.
Kirby, A. Florence

Langley, Roger F.
Leach, Roland M.
Locke, Mabel R.
Lombard, Helen F.
Lombard, Mildred A.
Long, Alice M.
Lounghway, Lillian A.
Lynch, Grace V.

McAuliffe, Helen L.
McDonald, Mary I.
McGillicuddy, Mary V.
McGourty, Kathleen V.
McGrady, Mary C.
McGrath, Mary A.
McHugh, Elizabeth F.
McKenna, Ellen R.
McKeon, Frances E.
McKeon, Florence C.
McManus, Elizabeth S.
MacGeoch, Ruth Anne
Mahoney, Margaret V.
Mahoney, Rose M.
Maloney, Catherine M.
Manning, Eileen F.
Maxwell, Lillian R.
Maynard, Gertrude
Medin, Elin E.
Mellen, Alice M.
Miner, Ethel M.
Moore, Robert L.
Moran, Honora A.
Moran, Mary F.
Mower, Elsie D.
Murphy, Catherine V.

O'Connor, Deborah F.
O'Connor, Mary Ellen

O'Flynn, Mary G.
O'Grady, Winifred L.
O'Hara, Abigail L.
Ohrn, I. Marie
O'Mara, T. Francis
Orr, Elizabeth

Peterson, Helga
Phinney, Alice
Porter, Lena S.
Power, Gertrude C.
Powers, James J.
Prouty, Etta F.

Quigley, Helen T.
Quinn, Margaret

Reardon, Gertrude E.
Regan, Mary E.
Rittenberg, Rena E.
Rice, Nathan
Richey, Janet
Roberts, Ruth M.
Rollins, Ellen H.
Rourke, Elizabeth A.

Salminen, M. Irene
Scanlon, Lillian E.
Scott, Edna M.
Scott, Marion L.
Seder, David I.
Seder, Jeanette R.
Seder, Shirley
Segal, Bess Y.
Sharfman, Ethel B.
Shea, Agnes G.
Smith, Mabel N.
Souza, Mary J.
Sugden, Lelia
Sullivan, Catherine A.
Sullivan, Marie
Sullivan, Mary A.

Talbot, Geraldine C.
Thompson, Lenore
Toy, Charles M.
Tunstall, Ruth M.

Walker, Janet C.
Walker, Ruth A.
Whipple, Mary E.
Whittemore, Mary
Willard, Ethel L.
Wilmarth, Madelin A.
Woodbury, Helen R.
Wright, Deseret

Young, Gladys G.

1934 SUMMER SCHOOL

An asterisk (*) indicates participation in a field trip only.

Ahearn, Margaret M., Worcester
Alexy, David D., Bethlehem, Pa.
Anderson, Ellen M., Worcester
Arms, Isabel K., Worcester
*Axtell, Mary, Oswego, N. Y.

*Bacon, Ruth I., Barre
Beishlag, George, Detroit, Mich.
Bemis, Elna B., Worcester
Bennett, Helen Z., Washington, D. C.
Berthiaume, Gerard M., Worcester
Bjorkman, Evelyn J., Worcester
Blakeslee, Frances H., Worcester
*Bolton, Willa, Hattiesburg, Miss.
Bond, Evelyn G., Baldwin, L. I., N. Y.
Bowerman, Harold, Canajoharie, N. Y.
Boyer, Helen M., Washington, C. H., O.
Boyle, Harry A., Worcester
Brearley, Robert G., Worcester
Brennan, Anne Frances, Auburn
*Burton, Huldah, Warren, O.

Callahan, Catherine D., Worcester
Caplovich, Jerome, Southbridge
Carey, Helen, Worcester
Carlson, Eric W., Worcester
Carroll, Walter T., Lenox
Catlin, Winton I., New Britain, Conn.
Clausmeyer, Helen L., West Roxbury
Coddington, Edwin B., Worcester
Cohen, Gertrude C., Webster
Colangelo, Robert C., Worcester
Colby, Helen P., Worcester
Converse, Ann, Worcester
Convery, James L., Jr., Worcester
Critz, Verne W., East Patchogue, N. Y.
Cummings, Paul W., Worcester
*Cunningham, Helen M., Worcester
Cushman, Marion B., Marlboro

Daley, Mary A., Worcester
Deihl, Lee H., Red Lion, Pa.
Derosia, Edith M., Williamsburg
Dombrosk, Harry L., Jr., Worcester
Donahue, Katherine C., Worcester
Downey, Joseph D., Worcester
Dubé, Joseph Z., Milford, N. H.
*Durbin, Fred, Hannibal, N. Y.

Elias, Dorothy, Worcester

Fawley, Gladys, Tallahassee, Fla.
Feeley, Katherine R.
Fillman, Louise, Indianola, Iowa
Ford, Catherine E., Grafton
Foster, Edward G., Haydenville

Gatti, Mentana, Worcester
Gaw, Helen I., Brookline
Gillan, Clara, Marion, O.
Gordon, Everett R., Worcester
Graham, Arthur R., Worcester
Grant, Robert D., Paxton
Greenawalt, Norman, Shippensburg, Pa.
Guerin, Katherine H., Worcester

Haines, Ethel, Verbank, N. Y.
Hall, Oliver R., Worcester
Hanft, Ella A., Washington, D. C.
Harding, Kenneth C., Worcester
Hardy, Dorothy M., Salem Depot, N. H.

Hargrove, H. Gordon, Worcester
Harris, Europa, Worcester
Holley, Ella J., Wilmington, Del.
Holstrom, Andrew, Auburn
Holter, Richard N., Worcester
Howe, Wyman, V., Worcester
Huhn, Blanche, Easton, Pa.
Hulbert, Kenneth L., Westboro
Hunter, Thayer, Worcester
Hutchinson, Mary C., S. Euclid, O.

Illingworth, Selma K., Worcester

Johanson, Ingrid, Oakdale
Johansson, John G., Gardner

Kayer, Donald A., Worcester
Keene, Ella O., Groveton, N. H.
Kennedy, Winnifred C., Worcester
Kirby, A. Florence, Worcester
Kistler, Esther L., Nanticoke, Pa.
Klinglof, Philip A., Worcester

Langley, Roger F., Barre
Lason, Catherine, Syracuse, N. Y.
Leahy, Ruth Ann, Worcester
Lester, Allen H., Barre
Leyden, Philip J., Springfield
Long, Alice M., Worcester
Looney, Margaret C., Worcester
Lynch, George F., Worcester

MacArthur, Harvey H., Sterling
MacArthur, Robert S., Sterling
Mahan, Kathryn E. A., Worcester
Mahoney, Mary, Worcester
Mahoney, Rose M., Worcester
Martens, Eva E., Franklin Park, Ill.
McAleer, Myles R., Worcester
McGinn, Thomas J., Worcester
McGlynn, Dorothea, Webster
McGogney, D. William, Wilson, Pa.
McGourty, Kathleen, Worcester
McGovern, Thomas F., Worcester
McHugh, Elizabeth F., Worcester
McManus, Elizabeth S., Worcester
Medin, Elin E., Auburn
*Mellen, Alice M., Holden
Moore, Norman B., Sterling

Noble, Otis M., Jersey City, N. J.

O'Connell, Katharine M., Worcester
Ohrn, I. Marie, Worcester
O'Neil, Richard J., Garden City, L. I., N. Y.

Paine, Helen V., Elizabeth, N. J.
Peltier, Charles, Dalton
Perch, Emmanuel, Worcester
Peters, Rupert, Independence, Mo.

Quinn, Margaret, East Douglas

Reed, Peter S., Worcester
Reed, Wesley B., Berlin
Reichert, Amelia, East Islip, N. Y.
Rice, Frances E., Berlin
Riley, James L., Worcester
Riley, Paul W., Worcester
Ross, Florence M., Worcester
Ross, Harold W., Spencer

Rourke, Elizabeth, Worcester
 Russell, Dorothea S., Brimfield
 Ryan, Philip E., Worcester

Seder, Evelyn R., Webster
 Shaer, Samuel, Worcester
 Shamagochian, George K., Worcester
 Shaw, Paul, Worcester
 Shea, Agnes G., Worcester
 Shrode, Ida M., Monrovia, Calif.
 Steinhilber, Otto W., Shrewsbury
 Sugden, Lelia, Spencer
 Sullivan, Florence M., Worcester

Talbot, Geraldine C., Worcester
 Tenney, Amy T., Keene, N. H.
 Tilton, Evelyn E., Trenton, N. J.
 Trueblood, Lester, W., Loogootee, Ind.

*Upcraft, Milton, Sterling Sta., N. Y.

Van Dyke, Helen, Youngstown, O.
 Van Name, M. Etta, Farmersville Sta., N. Y.
 Varg, Paul A., Worcester
 Virtue, Jessie, Meadville, Pa.

Waldron, Florence I., Camden, N. Y.
 Wall, Roy H., Worcester
 Ward, Mary L., Worcester
 Wasson, Margaret M., Camden, N. Y.
 Watchorn, Arthur W., Millbury
 *Whitney, Florence, Richland, N. Y.
 Wiesman, Francis, Worcester
 Wilson, Mary C., Kalamazoo, Mich.
 Wright, Harriet P., Shrewsbury

Youngquist, Lincoln, Worcester

SUMMARY 1934-35

Undergraduates		304
Freshmen	99	
Sophomores	92	
Juniors	67	
Seniors	46	
Graduate Students		85
Special Students		27
Extension Students		155
Summer School Students (1934)		156
Total		<hr/> 727

INDEX

Abstracts of Dissertations and Theses.....	48, 49, 50
Academic Year.....	5, 19
Administrative Officers.....	7
Admission.....	19, 28, 43, 44, 52, 59, 62
Advanced Standing.....	31, 63
Advisers, Faculty.....	32
Aid, Student.....	23, 26, 42
Ancient Languages.....	35, 66
Art Department.....	25
Assistants.....	11
Athletics.....	39, 40
Attendance, Summary.....	118
Auditors.....	21
Bachelor of Arts Degree.....	18, 34
Bachelor of Education Degree.....	18, 62
Biology.....	68
Buildings.....	18
Calendar.....	5, 6
Candidacy for Bachelor's Degrees.....	33, 62, 63
Candidacy for Graduate Degrees.....	47, 49
Certificates, Admission by.....	29
Chemistry.....	73
Classification of Students.....	37, 43, 110
College.....	26
College Board.....	14, 16
Committees.....	14, 15, 16, 17
Conditions, Admission with.....	30
Contents, Table of.....	3, 4
Degrees.....	18, 34, 47, 48, 62
Degrees Conferred.....	108, 109
Departmental Honors.....	16, 38
Departments.....	19, 66
Dining Hall.....	22
Diploma Fees.....	22
Dissertation (Ph.D.).....	49
Divisions.....	33, 35, 36
Doctor of Philosophy Degree.....	18, 48
Dormitory.....	22
Economic Geography, Journal of.....	51
Economics and Sociology.....	76
Education.....	14, 81, 100
Electives.....	34, 82
Eligibility.....	39, 43
English.....	84
Estabrook Hall.....	18, 22
Examinations for Admission.....	30

Examinations for Graduate Degrees.....	46, 48, 50
Expenses.....	20, 21, 22, 23, 53, 58, 60
Extension Courses.....	14, 18, 21, 62, 63, 64
Extension Division.....	18
Extra-Curricular Activities.....	39, 40, 41
Faculty.....	2, 8, 13
Fees.....	20, 21, 22, 53, 58, 60
Fellowships, Graduate.....	23, 42, 44
Fine Arts, Appreciation of.....	35, 86
Fine for Late Registration.....	20, 32
Foreign Language.....	15, 33, 34, 35, 46
French.....	105
Freshman.....	37
Freshman Programs.....	34
Geography.....	18, 51, 87
Geography, Field Trips.....	57, 60
Geography, Graduate School of.....	2, 18, 51
Geology.....	87
German.....	87
Government and Political Science.....	92
Grading and Scholarship, Undergraduate.....	36
Graduate Board.....	13, 15
Graduate Division.....	18, 42
Greek.....	67
Grounds.....	18
Gymnasium.....	23
Health.....	23
Historical Note.....	2
History and International Relations.....	90
Holidays.....	19
Home Study Courses in Geography.....	57
Honorary Fellowships.....	46
Honors, Undergraduate.....	38
International Relations.....	90
Junior.....	37
Laboratory Fees and Deposits.....	21
Latin.....	67
Library.....	18, 24, 43
Loans to Students.....	23, 27, 43
Location of University.....	18
Majors, Undergraduate.....	32, 33, 35
Master of Arts Degree.....	18, 47
Mathematics.....	96, 99
Matriculation Fee.....	21
Medical Director.....	23

Minors.....	32, 33, 35, 49, 50
Organization of the University.....	18
Physical Training.....	23, 33, 36
Physics and Mathematics.....	96
Press, Clark University.....	19
Programs of Study.....	33, 47, 48, 62
Psychology.....	100
Public Speaking.....	35
Publication Fees.....	21
Publications.....	19, 41, 51, 60
Rank in Course.....	32, 36
Record, Statement of.....	21
Refunds of Tuition, Fees and Deposits.....	21, 47, 49
Register.....	110
Registration.....	20, 32
Requirements for the B.A. Degree.....	34
Requirements for the B.Ed. Degree.....	62
Requirements for the M.A. Degree.....	47
Requirements for the Ph.D. Degree.....	48
Residence.....	31, 34, 46
Romance Languages.....	105
Rules and Regulations.....	40, 44, 46
Scholarships, Graduate.....	23, 42, 44, 45
Scholarship Society.....	39
Scholarships, Undergraduate.....	23, 26
Senate.....	13
Senior.....	37
Sociology.....	79
Sophomore.....	37
Spanish.....	107
Special Courses for Teachers.....	20, 64
Special Graduate Students.....	43
Special Students.....	14, 20, 26
Staff.....	8
Student-Faculty Council.....	40
Student Life.....	40
Summary, Attendance.....	118
Summary, Degrees Conferred.....	109
Summer School.....	2, 18, 21, 51, 59, 62
Teachers, Courses for.....	14, 18, 21, 62, 64
Thesis (M.A.).....	48
Trustees, Board of.....	7
Tuition and Fees.....	20, 21, 22, 58, 60
Undergraduate Division.....	18, 26

CLARK UNIVERSITY

The Forty Fifth Annual Commencement

JUNE 10 1935



Order of Exercises

Processional: Priest March from Athalia *Mendelssohn*

Invocation REVEREND WILLIAM SMITH
St Matthews Episcopal Church

Commencement Address J STEVENS KADESCH Clark 1910
Superintendent of Schools
Medford Massachusetts

Annual Statement of the President

Announcement The Edmund C Sanford Scholarship

Overture: Titus *Mozart*

Conferring of Degrees

Benediction

Recessional: Priest March from Athalia *Mendelssohn*

Music by
Clark University Orchestra
David Levenson: Director
Vitold Sukaskas: Concertmaster

The audience will kindly remain
standing during the recessional

CLARK UNIVERSITY

Final Assembly of the 1935 Summer School

August 8, 8:30 p. m.

I. The Princess Marries the Page

Edna St. Vincent Millay

A One Act Play

CAST

(In order of appearance)

The Princess	Olive Hanscom
The Page	Lillian Roberts
The Lord High Chancellor	Myles McAleer
The King	James Lidgate
First Soldier	George Deering, Jr.
Second Soldier	George Pride

SCENE

A room in the top of a town

II. Conferring of Degrees

President Atwood

Bachelor of Education

Ruth Idelle Bacon
Margaret Mary Doyle
Addie May Ginn
Ethel Haines
Amy Florence Kirby

Agnes Gertrude Shea
Geraldine Claire Talbot
Mary Tibbetts Underhill
Florence Irene Waldron
Margaret Maria Wasson

Master of Arts

Economics and Sociology
Frances Green

History and International Relations
Marie Patricia Mahoney

Candidates for the Degree of Bachelor of Arts

Philip Elwyn Arsenault
 *Robert Bruce Atwood
 Raymond Alton Beeber
 Gerard Mandeville Berthiaume
 Robert Aime Bolduc
 *Maurice S Brooker
 Earle Brown Jr
 Maurice Julius Burwick
 Philip Latimere Carpenter
 Arthur Wheeler Carroll
 Charles Baer Cohn
 Alvah James Conant
 Norman Giles Cutler
 Herman William Domblatt
 Harry Frederick Dombrosk Jr
 *Joseph Daniel Downey
 Walter David Glidden Jr
 Alfred Goldenberg
 Milton Lory Grout
 Hans Heinrich Hagemann

Oliver Richard Hall
 John Richard Hirtle
 Walter Ahaesy Hoar
 *Richard Norman Holter
 *Donald Allen Kayer
 George Francis Lisk
 Roland Joseph Menard
 Norman Buck Moore
 Richard James O'Neil Jr
 Franklyn George Palmer
 Maxwell Louis Perman
 David Russell Porter
 Milton Edwin Prescott
 James Lewis Riley
 Roger Wolcott Russell
 Roger Burgess Spencer
 Vitold Sukaskas
 John Thomas Trumbull
 Paul Albert Varg
 Arthur Robert Williams

WITH HONOR

Burton Everett Clark

David Marshall Gould

John Paul Goulding

WITH HIGH HONOR

Walter Scott Allan Jr

Paul Marcel Glaude

WITH HIGHEST HONOR

Roland Axel Erickson

Candidates for the Degree of Master of Arts

Chemistry

Arthur Richard Backstrom
 Frederick Edward Petke
 George Paul Sullivan

Economics and Sociology

Robert Carl Cole
 Lloyd Eager Crane
 Harold Joseph Fitzgerald
 Charles Francis Johnson
 Gerald James Matchett

Geography

Gertrude Esther Grady
 Anna Pauline Kennedy
 Walter Emmett Kirkendall
 Anna Genevieve Eaves Simmons

*As of June 1934.

History and International Relations

Kathleen Mary Burns
 Edwin Broughton Coddington
 Lois Alice Cotton
 William Mawhinney Keenlyside
 George Francis Lynch
 William Franklin Russell
 Alfred Frederick Schreiber

Physics

Hyman Samuel Denmark

Psychology

Rosaline Goldman

All degrees awarded as listed.

Candidates for the Degree of Doctor of Philosophy

Chemistry

Milan Adelbert Chapin Jr

Karl Chism Whitehouse

Geography

John Norman Carls

Franklin Carl Erickson

Minnie Ethel Lemaire

Economics and Sociology

John Tougas Croteau

Ryoichi Ishii

Psychology

Robert James Beitel Jr

Robert Heath Brown

Claude Cassell Neet

Sidney Harold Newman

Joseph Roy Smith

Annual Collegiate Honors

SENIORS

First Honors

Roland Axel Erickson

John Paul Goulding

Second Honors

Walter Scott Allan Jr

Paul Marcel Glaude

Hans Heinrich Hagemann

Arthur Robert Williams

JUNIORS

First Honors

Milton Derber

Lawrence Patrick Healey

Austin Simon Johnson

Leo Lawrence Laskoff

Second Honors

Marvin Samuel Fink

David Abraham Grodberg

William Glover Fletcher

SOPHOMORES

First Honors

Edwin Louis Goldberg

James Edward Toman

Second Honors

Charles Jewell Burton Jr.

Thomas Lloyd Fletcher

Jacob Gordon

Henry Samuel Guterman

John Walenty Vaitkus

FRESHMEN

First Honors

Joseph Nathaniel Goff

Vernon Marshall Grout

Second Honors

Milton Cotzin

Samuel Burton Cotzin

William David Gray

Milton Eugene Madorsky

William James Russell

Haskell Philip Wolkowich

EDMUND C SANFORD SCHOLARSHIP

Austin Simon Johnson

Clark University

BULLETIN OF INFORMATION

Number 117

February, 1935

ANNOUNCEMENT OF
THE SUMMER SCHOOL

JULY 1—AUGUST 9, 1935



WORCESTER, MASSACHUSETTS

SCHEDULE OF LECTURE AND RECITATION HOURS

<i>Instructor</i>	8	9	10	11	12	Afternoon
ILLINGWORTH		English 126	English 2	English 5		
VAN VALKENBURG	Geography 12				Geography *202	Geography *34†
SHAW				Geography 14		Geography *34†
BURNHAM				Geography 192	Geography 190	
BLAKESLEE		History *20	History *21			History *351‡ History *352§
LEE		History 1		History *221		History *354†
BILLINGTON			History 10		History *26	History *355†
BRANDENBURG			Economics *5	Economics 1		Economics *32†
BALSAM	Sociology *27	Sociology *20				Sociology *30†
V. JONES			Education *20		Education *21	
GEOGRAPHY STAFF						Geography *30†

NOTE: All the above courses are Summer School courses. The symbol "SS" before the numeral which distinguishes courses in Summer School from those given during the regular academic year is omitted. *Courses suitable for graduate credit. †Time to be arranged. ‡Mondays at 3. §Tuesdays at 3. †Wednesdays at 3.

CALENDAR

- July 1 Monday, beginning at 9 A.M. Registration Day.
12 M. Opening Assembly.
8-10 P.M. Reception to members of the Summer School.
- July 2 Tuesday, 8 A.M. Lectures and recitations begin.
- July 4 Thursday, Independence Day.
- July 6 Saturday, Fifth Transcontinental Field Trip begins.
- July 9 Tuesday, 8:30 P.M. Open lecture. "Danger Zones in the Far East." Dr. George H. Blakeslee.
- July 16 Tuesday, 8:30 P.M. Open lecture. "Economics for Today." Dr. Samuel J. Brandenburg.
- July 23 Tuesday, 8:30 P.M. Open lecture. "Geographical Aspects of World Civilization." Dr. Samuel Van Valkenburg.
- July 30 Tuesday, 8:30 P.M. Open lecture. "Some Aspects of Modern Poetry." Professor Robert S. Illingworth.
- August 8 Thursday, 8:30 P.M. Final assembly. Conferring of Degrees.
- August 9 Summer session closes.
- August 28 Fifth Transcontinental Field Trip ends.

All meetings will be held in the Jonas G. Clark auditorium unless announcement to the contrary is given.

During the summer session a series of dramatic productions will be given in the college theatre.

COMMITTEE ON THE SUMMER SCHOOL

THE PRESIDENT OF THE UNIVERSITY

THE DIRECTOR OF THE SUMMER SCHOOL

MESSRS. BLAKESLEE, VAN VALKENBURG, BRANDENBURG

The Bulletin is published in January, February, March, April, May, June, October, November, and December.

Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917, authorized January 24, 1921.

OFFICERS OF INSTRUCTION AND ADMINISTRATION

- WALLACE WALTER ATWOOD, PH.D. *Geography*
President of Clark University and Director of the Graduate School of Geography, Clark University.
- ROBERT S. ILLINGWORTH, A.M., ED.M. *English*
Director of the Summer School and Associate Professor of English, Clark University.
- SAMUEL VAN VALKENBURG, PH.D. *Geography*
Associate Professor of Geography, Clark University.
- EARL B. SHAW, PH.D. *Geography*
Professor of Geography, State Teachers College, Worcester, Mass.
- GUY H. BURNHAM, A.M. *Cartography*
Cartographer, Clark University.
- GEORGE H. BLAKESLEE, PH.D. *History*
Professor of History and International Relations, Clark University.
- DWIGHT E. LEE, PH.D. *History*
Associate Professor of Modern European History, Clark University.
- RAY ALLEN BILLINGTON, PH.D. *History*
Associate Professor of History, Clark University.
- SAMUEL J. BRANDENBURG, PH.D. *Economics*
Professor of Economics and Sociology, Clark University.
- LOUIS BALSAM, PH.D. *Sociology*
Assistant Professor of Sociology.
- VERNON JONES, PH.D. *Education*
Associate Professor of Educational Psychology, Clark University.
- LYDIA P. COLBY *Recorder*
- FLORENCE CHANDLER *Bursar*

THE SUMMER SCHOOL AT CLARK UNIVERSITY

Clark University is now laying special emphasis on fields of study that lead to a better understanding of national and international problems. Geography, Economics, and History and International Relations are of fundamental importance to all students interested in the solution of the larger problems now before the world.

The Summer School program is concentrated in a few closely related departments of study—Geography, History, Economics, English, and Education. The rich library resources of these fields give opportunity for wide reading.

The work of the Summer School is intensive. Courses meet five times a week. Three courses are considered a full program. Many students will find it advantageous to concentrate all their energies on the work of two courses or even on a single course.

LOCATION AND BUILDINGS

Clark University is located on Main Street about a mile and a quarter southwest of the City Hall. Trolley cars run directly past the University. Taxicab service is available at moderate price.

The office of the Summer School is located in the Jonas G. Clark Hall, which contains also the general offices of the University. Most of the exercises of the Summer School are held in this building. The office of the President of the University and the Geography workroom are in the Geography Building where some classes are held.

In the Science Building are located the lecture room and laboratories of the departments of Physics and Chemistry.

All the classroom, library, and laboratory facilities of the University, so far as they pertain to the subjects of instruction offered, are at the disposal of students of the Summer School.

THE LIBRARY

The Library of the University was provided with a generous endowment by the founder of the Institution, and affords favorable opportunities for study and research. The Library now owns more than 140,000 bound volumes and pamphlets, and the Reading Room receives more than 500 journals. All the privileges of the Library are open to all members of the University, and each member has direct access to every book and journal.

In addition to the library facilities provided by the University, students may avail themselves of the privileges of other excellent libraries in the city. The Worcester Public Library contains 250,000 volumes. The Library of the American Antiquarian Society, housed in the national headquarters of the Society in Worcester, contains more than 500,000 volumes and pamphlets. These libraries are pleased to serve Summer School students.

ADMISSION TO THE SUMMER SCHOOL

Graduates of colleges, technical schools, normal schools, or secondary schools, college students, and teachers in schools of any grade are admitted as a matter of

course upon application. Other applicants are admitted upon approval of their qualification for the work which they desire to do.

Students in the College Division of Clark University who desire to have work done in the Summer School credited toward an A.B. degree are required to obtain the approval of the College Board.

REGISTRATION

Persons who desire to enter the Summer School should detach and fill out the application form which is printed at the end of this BULLETIN and forward it, with the registration fee of two dollars, to the Clark University Summer School. The amount of the registration fee will be deducted from the tuition fee when the latter is paid. Checks should be made payable to Clark University.

The registration of all students in all courses should be completed on July 1. To this end students should, as far as possible, determine before the opening of the session, through personal conference or correspondence with the Director, or the various instructors, the courses in which they expect to register.

Formal registration will take place between 9 A.M. and noon on Monday, July 1, in Jonas G. Clark Hall. All instructors will be on hand for consultation and for signing registration cards between these hours. The opening assembly of the Summer School will be held in the Auditorium, July 1, at twelve o'clock. Class work will begin promptly on Tuesday morning.

CREDIT FOR WORK DONE

Some of the courses of instruction in the Summer School are of college grade, others are strictly graduate courses, and many are equally suitable for advanced undergraduates or graduate students.

Unless otherwise announced, each course is designed to cover the equivalent of two semester hours of credit, and is so credited when applied toward a degree in Clark University. Three courses constitute a full schedule; a maximum of four courses may be taken, but only with the consent of the Director. With the consent of the instructor, students may attend other classes as auditors.

A certificate, with a statement of courses taken and grades received, will be furnished at the close of the session to all students who desire it. In order to obtain a prompt report, students should leave a stamped and addressed envelope at the Recorder's office during the last week of the session.

Summer School courses may be applied toward the fulfillment of the requirements for the degree of Bachelor of Arts, Bachelor of Education, or Master of Arts, *subject to the general regulations of the University.*

TUITION AND FEES

Students taking two or three courses pay a fee of thirty-five dollars; those who desire to take but one course may do so upon payment of a fee of twenty dollars, which entitles them also to all special privileges of the Summer School. The same charge is made whether students register as auditors or for credit. Students who

take a fourth course for credit, will pay an additional tuition fee of \$10, to be paid as a separate item by the end of the second week of the term.

Students registering in the Summer School who have not previously been enrolled in Clark University are required to pay a matriculation fee of five dollars. The fee is paid only once and is not returnable.

Tuition may be paid at any time before 5 P.M. of Friday, July 5. Checks should be made payable to Clark University.

BOARD AND ROOMS

A few rooms are available in the Faculty House. Reservations may be made by correspondence. Good rooms may be had in private homes near the University at \$3 to \$5 per week. Meals, at moderate prices, may be secured in the vicinity of the University. A list of desirable rooms will be sent on request.

THE BACHELOR OF ARTS DEGREE

Students who have been admitted to the Undergraduate Department of the University may secure not more than six semester hours of credit toward the Bachelor of Arts degree in any one summer session on condition that permission be secured in advance from the College Board and that programs of study be approved by the Dean of the College.

THE BACHELOR OF EDUCATION DEGREE

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year Normal School course or its equivalent is a prerequisite for admission to candidacy and a year of teaching experience is a prerequisite for the degree.

Candidates for this degree may earn the necessary residence credit by attendance at the Summer School or by enrolling in extension courses offered at the University during the regular academic year, or in such regular university courses as may be open to them.

Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.

A normal program for Summer School students consists of three courses, each yielding two semester hours of credit. Two extension courses, each yielding two semester hours of credit, constitute a normal program for teachers in service. Credit toward the degree may also be earned through the Home Study Department and in connection with the field trips offered by the Summer School, but credit so earned may not be used to reduce the minimum residence requirement of 30 semester hours.

Courses designated as "College Courses for Adults" are offered during the regular academic year on Saturday morning and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in four years the equivalent of a year of study in residence.

The general administration of regulations applying to the degree of Bachelor of Education is lodged with the Committee on College Courses for Adults and

Special Students, for which the secretary, Professor C. E. Melville, acts as the administrative officer in dealing with students. The regulations applying to this degree are summarized in the following paragraphs.

1. **ADMISSION REQUIREMENTS.** The completion of a standard two-year course in a Massachusetts State Normal School, or the reasonable equivalent of such a course.

2. **REQUIREMENTS FOR THE DEGREE:**

- a. At least one year's teaching experience.
- b. At least 30 semester hours of credit earned *in residence* at Clark University.
- c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.
- d. Requirements in particular subjects:
 - (1) Six semester hours in Psychology or Education taken after the completion of the two-year Normal School course.
 - (2) Six semester hours of Laboratory Science taken after the completion of the two-year Normal School course.
 - (3) Ten semester hours of English, which may be taken in whole or in part in the Normal School course.
 - (4) Ten semester hours in foreign language, which may be taken in whole or in part in the Normal School course.
 - (5) Twelve semester hours of Economics, Geography, Government, History, or Sociology, at least six of which must be taken after the completion of the two-year Normal School course.

3. **STANDARD OF SCHOLARSHIP.** The same standard of scholarship is required of candidates for this degree as for the degree of Bachelor of Arts.

4. **ADVANCED STANDING:**

- a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School. This may be reduced in special cases.
- b. Credit will be allowed for work done at other Universities, Colleges or Normal Schools, subject to reasonable regulations.
- c. Not more than 30 semester hours credit may be allowed for home study or extension courses other than the extension courses offered by Clark University expressly for candidates for this degree. The acceptance of any work of this type is subject to the approval of the secretary of the Committee.

5. **LAPSE OF CANDIDACY.** By vote of the committee on the degree of Bachelor of Education candidacy terminates automatically whenever for a period of two years or more a candidate has failed to complete any course in Clark University yielding credit toward the degree. A candidacy terminated under this rule may be renewed by action of the committee, and such renewal may involve a revision of allowances previously made, both in respect to total credit, and requirements in particular subjects.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Recorder of the University.

SPECIAL COURSES FOR TEACHERS. In keeping with its long established policy, Clark University offers a series of College Courses for Adults designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region. These courses are also open to the general public. When occasion arises the subject of aims and methods of teaching is treated in some of these extension courses.

THE MASTER OF ARTS DEGREE

A student admitted to full graduate standing may satisfy the minimum residence requirement for the Master of Arts degree by attending six summer sessions of six weeks each, and taking a normal program made up exclusively of graduate courses approved by the department in which the student is seeking the degree. The minimum residence requirement may be met in five sessions, if the Master's thesis is prepared outside summer session periods under the supervision of the department in which the student is a candidate for the degree. In this case, the degree will be conferred not earlier than the June commencement following the completion of the fifth summer session of attendance.

Persons who wish to become candidates for the Master's degree beginning with a summer session, should take up correspondence promptly with Dr. H. Donaldson Jordan, Secretary of the Graduate Board, Clark University. Application blanks with directions for making application for graduate standing will be furnished on request by the Secretary of the Graduate Board. Formal admission to graduate work by the department in which the student seeks the degree should then be secured in advance of the opening of the summer session.

A person who has already entered upon graduate work should arrange his program for the summer session of 1935 by correspondence with the department in which he is a candidate for a degree.

EXCURSIONS

Saturday field trips for geography and history students will not be offered this summer as a regular course, but such trips will be arranged for each Saturday if sufficient interest is shown.

THE SUMMER SCHOOL ASSOCIATION

The Summer School Association was organized by the students at the first session of the Summer School in 1921. The Association promotes the social activities of the school during the summer session and holds an annual reunion during the year. Every student is urged to participate in the activities of the Association as they develop during the term.

NEW YORK STATE CLUB

The New York Club of Clark University was organized in 1928. It will hold its first meeting of the summer session of 1935 at 2 P.M., Monday, July 1, in Room 120, first floor of Jonas G. Clark Hall. All members of the Summer School from New York State are requested to be present.

SUMMER TOURIST RAILROAD RATES

Summer Tourist Railroad Rates from Chicago and places west of Chicago will probably be in effect from June to October. Inquiry should be made at local ticket offices.

THE SUMMER SCHOOL ROSTER

The names of students of the Summer School, with their home addresses, will be found in the General Catalogue of the following academic year. Students who desire a list should write to the University after February 1, of the following year.

DEPARTMENT ANNOUNCEMENTS

The right is reserved to withdraw any course listed in the event of a registration too small to justify its being given.

Courses marked with an asterisk () are primarily for advanced students.*

GEOGRAPHY

The courses in geography announced here include undergraduate and graduate courses in the several phases of the subject. Certain fundamental courses are offered every summer. Others are given every other year or occasionally.

Students whose assignments involve the preparation of maps or who wish to practice map-making will appreciate the opportunity for special help by the cartographer, Mr. G. H. Burnham, in the geography workroom.

Advanced students in geography are especially urged to register for at least one of Dr. Blakeslee's courses. Those courses satisfactorily completed will be accepted for graduate credit in geography.

SS12. Weather. A general treatment of weather for practical purposes as well as a basis for the understanding of climate. DR. VAN VALKENBURG.

Daily, except Saturday, at 8.

***SS202. Political Geography.** A geographical interpretation of the present political problems in the world. DR. VAN VALKENBURG.

Daily, except Saturday, at 12.

SS14. Economic Geography. A study of the relation of physical and economic conditions to the farming, grazing, fishing, lumbering, mining and manufacturing regions of the world. DR. SHAW.

Daily, except Saturday, at 11.

SS190. Mathematical Geography. A study of the earth's form, size and motions; its relations to the other bodies of the Universe; latitude and longitude; seasons; zones; tides; almanacs; time; calendars; changing length of day and night with practical applications to map making, surveying, navigation and other phases of every-day life. MR. BURNHAM.

Daily, except Saturday, at 12.

SS192. Map Interpretation and Appreciation. An analysis of various types of maps and methods of making them. The relation of maps to the globe; a study of map terms, map symbols, map scales, place relationship; interpretation of related maps. A course designed to aid teachers in using maps more effectively in the classroom. MR. BURNHAM.

Daily, except Saturday, at 11.

***SS30. Seminar in Geography.** An organized discussion of research problems and theses. Attendance is required of all students preparing theses, or conducting research. THE GEOGRAPHY STAFF.

Wednesdays at 3.

*SS34. Research in Geography. For properly qualified students. DR. VAN VALKENBURG and DR. SHAW.

HISTORY

*SS20. Survey of International Relations. Present world issues and problems; causes of war; munitions, naval ratios and limitation of armament; efforts to abolish war as an institution; existing danger zones in Europe, the Americas and the Far East; foreign policies of the United States; the international outlook. Lectures, readings and class discussions. DR. BLAKESLEE.

Daily, except Saturday, at 9.

*SS21. The Far East. Japan and China, and their relations with the United States, Soviet Russia and the Western powers; recent history and present problems; social and economic conditions; Japan's challenge; the interests and policies of the United States. Lectures, readings and class discussions. DR. BLAKESLEE.

Daily, except Saturday, at 10.

*SS351. Research in the International Relations of the United States. DR. BLAKESLEE.

*SS352. Research in the International Relations of the Pacific and the Far East. DR. BLAKESLEE.

SS1. History of Europe, 1500 to 1830. A survey course in which the text of C. J. H. Hayes, *A Political and Cultural History of Modern Europe*, Volume I, will be used. Open to graduate students with special permission of the instructor. DR. LEE.

Daily, except Saturday, at 9.

*SS221. Post-War International Relations of Europe. DR. LEE.

Daily, except Saturday, at 11.

*SS354. Research in the History and International Relations of Europe. For properly qualified graduate students who wish guidance in the study of some special field of interest. DR. LEE.

SS10. American History to 1840. After a brief survey of the colonial beginnings of American history and the American Revolution, this course will treat carefully the period from 1783 to 1840. DR. BILLINGTON.

Daily, except Saturday, at 10.

*SS26. The American Revolution. The period between 1763 and 1783 will be studied in detail. Emphasis will be placed on the economic, social and constitutional factors involved in the American struggle for independence. DR. BILLINGTON.

Daily, except Saturday, at 12.

*SS355. Research in the History of the United States. DR. BILLINGTON.

ECONOMICS AND SOCIOLOGY

SS1. Principles of Economics. The complete course, offered in two parts, SS1, in 1935, SS2 in 1936, is the equivalent of Economics 11, offered three hours a week through both semesters of the regular academic year. SS1 stresses particularly the economic principles underlying the production, valuation, distribution, and use of goods. Readings, discussions and written tests. DR. BRANDENBURG.

Daily, except Saturday, at 11.

***SS5. Economic History of Western Europe.** A survey of economic structures and activities, chiefly of Great Britain, France and Germany, during the last two centuries. Changes in economic technique of major industries are noted, but emphasis is placed on: (a) problems arising from these changes such as population increase and urbanization, raw materials, markets; and (b) policies designed to cope with these problems. Desirable prerequisites are a knowledge of economic principles and of European history. Graduate credit may be earned by properly qualified students. DR. BRANDENBURG.

Daily, except Saturday, at 10.

***SS32. Research in Selected Economic Problems.** For properly qualified graduate students. DR. BRANDENBURG.

***SS27. Educational Sociology.** An attempt to study the place of Education in the whole Social Scheme. Just where does Education "fit in"? What part does it, or can it, play in the complexities of today's challenging civilization? What is its real power, and what are its possibilities? There will be individual projects, readings, exchanges of experiences, and discussions based upon dependable data. DR. BALSAM.

Daily, except Saturday, at 8.

***SS20. Contemporary Sociological Problems.** This course will attempt to view such phenomena as the Family and Sexual Maladjustment, Crime, Juvenile Delinquency, Poverty and Relief, Insanity, and Community Disorganizations in the light of their human interrelationships. We will try to consider these problems from the standpoint of contemporary needs, with some attempt to grasp essential backgrounds. There will be readings, discussions based upon reliable data, projects, and one field trip. DR. BALSAM.

Daily, except Saturday, at 9.

***SS30. Research in Selected Sociological Problems.** For properly qualified graduate students. DR. BALSAM.

ENGLISH

SS2. Public Speaking. A course in the composition and delivery of speeches and practice in impromptu speaking. The student is taught to breathe correctly; exercises are given to overcome speech defects; relation of speaker to audience; posture, movement, gesture, pronunciation and enunciation,

methods of preparing a speech, vocabulary building. The aim of the course is to train the student to think logically and to speak simply and effectively when on his feet. PROFESSOR ILLINGWORTH.

Daily, except Saturday, at 10.

SS5. Stagecraft. The course is designed primarily to give training in dramatic expression. Further, it takes into consideration the allied arts of the theatre; the function of stage settings; the procedure in mounting a play; the evolution of the design through sketches and miniature models; costume; properties; make-up, pantomime, rehearsals, directing, choice of play, and theatre organization and management. The student is familiarized with all the responsibilities of play production. There will be class productions and at least one public performance. PROFESSOR ILLINGWORTH.

Daily, except Saturday, at 11.

SS126. Modern Continental Drama. Beginning with Ibsen, as the founder of modern drama, representative plays of such important dramatists as Strindberg, Bjornson, Tolstoy, Gorky, Chekhov, Andreyev, Maeterlinck, Rostand, Hauptmann, Sudermann, Schnitzler, Molnar, Benavente, D'Annunzio, Pirandello, and others will be read. Significant movements in the theatre will likewise be discussed through their chief exponents. PROFESSOR ILLINGWORTH.

Daily, except Saturday, at 9.

EDUCATION

***SS20. Education for Character and Citizenship.** A study of the psychology of character and citizenship and an evaluation of various proposed methods of teaching in this field. DR. VERNON JONES.

Daily, except Saturday, at 10.

***SS21. Educational Guidance and Adjustment.** A study of individual differences, including differences in intellectual and personality traits, and a consideration of the school's problems of adjusting the individual to modern social demands. DR. VERNON JONES.

Daily, except Saturday, at 12.

FRENCH AND GERMAN

While no provision is made for regular courses in French and German, students who wish to pursue either or both of these languages during the Summer Session may make arrangements to do so. A skilled instructor is available for lessons in French and German to individuals or groups at moderate cost. The lessons, if desired, will be given at the University. The work in these languages will be adapted to the individual needs of the students whether for elementary or advanced work, or for a reading knowledge of scientific works. Further information will be given on request.

HOME STUDY COURSES IN GEOGRAPHY

Clark University is now offering Home Study Courses for the benefit of those interested in the study and in the teaching of geography. These courses may be begun at any time and pursued as rapidly as opportunity for study affords. Many teachers pursue these home study courses during the school year while teaching. Other teachers who have not found convenient opportunity to attend summer school have made rapid progress in home study work while at home during the summer vacation. Each course carries three semester hours of college credit toward the Bachelor's degree at Clark University. The tuition fee for each course is \$18. As soon as the tuition fee is received the complete set of lessons is forwarded. Sample lessons of one or two courses will be sent on request. Address: Clark University, Home Study Department, Worcester, Massachusetts.

The following Home Study Courses are now ready:

COURSES ON THE TEACHING OF GEOGRAPHY

1. The Teaching of Geography in the Elementary School.
- 1a. The Teaching of Geography Based on the New York State Syllabus, Grades 3, 4, 5, and 6.
2. The Teaching of Home Geography and World as a Whole.
- 2a. The Teaching of Third Grade Geography of the New York State Syllabus.
3. The Teaching of North America.
4. The Teaching of South America, Europe, and Asia.
5. The Teaching of Geographic Factors and the United States in Its World Relations.
- 5a. The Interpretation of the Globe, Maps, and Graphs.

ACADEMIC COURSES IN GEOGRAPHY

6. Industrial and Commercial Geography.
7. Geography of North America.
8. Geography of South America.
9. Geography of Europe.
10. Home Study Course for European Travel.
11. Geography of the Eastern Continents.
12. The Physical Geography of the Lands.
13. Fundamentals of Climate.
14. Climates of the World.
15. Climatology of the United States.
16. Mathematical Geography.
17. Graphics and Cartography.
18. Special Studies in Geography.

Special attention of teachers and students who cannot attend Summer School is called to the opportunity offered by these home study courses to secure the same amount of college credit through home study courses as through the regular summer school period. Two home study courses give the same amount of college credit as the regular program of the summer school session. By enrolling early for a home study course, plans can be made for prompt and steady progress immediately at the beginning of the summer vacation. The completion of one or two home study courses during the summer can be readily accomplished.

Fifth Transcontinental Field Trip. Fifty-four days' travel by chartered motor coach, visiting St. Louis, Denver, Pike's Peak, Santa Fe, Grand Canyon, Los Angeles, San Francisco, Yosemite, Portland, the Columbia River Valley, Salt Lake City, Teton Range, Yellowstone National Park, the Great Plains, the Wheat Belt, Minneapolis, Chicago, and Niagara Falls.

This trip will be conducted by Isabelle K. Hart, Instructor in Geography, State Normal School, Oswego, New York. This is the seventh field trip conducted by Mrs. Hart for Clark University students. The party will leave Oswego Saturday, July 6, and return to Oswego Wednesday, August 28. The cost of transportation and tuition for this 9,300 mile trip will be \$300, payable to Clark University. Living expenses en route are estimated between \$225 and \$275, according to hotel accommodations selected by each member. No additional charge for transportation from Worcester or Albany.

Six semester hours of credit may be earned by satisfactory work.

For full information and an illustrated folder, address Clark University Summer School, or Mrs. Isabelle K. Hart, State Normal School, Oswego, N. Y.

PUBLICATION FOR GEOGRAPHY TEACHERS

Economic Geography, a quarterly journal published by Clark University. \$5.00 per year.

TO THE CLARK UNIVERSITY SUMMER SCHOOL:

I wish to be enrolled as a student in the Summer School for 1935, and enclose with this the Registration fee of two dollars.

Name

Address

Date

Occupation during the past academic year

.....

.....

Graduate of what college, normal school, or other educational institution, with date of graduation?

.....

.....

.....

TENTATIVE LIST OF SUMMER SCHOOL COURSES WHICH APPLICANT DESIRES TO ENTER

.....

.....

.....

.....

.....

(Describe by Subject and Number, i.e., Geography 101)

Have you been accepted as a candidate for a degree?

At what institution? What degree?.....

Have you ever attended the Clark University Summer School?

If so, what was year of last attendance?

Clark University Bulletin

Catalogue Number



Worcester, Massachusetts

January, 1936

Clark University Bulletin

NUMBER 125

JANUARY, 1936

CATALOGUE NUMBER

The Catalogue is a record for the current academic year, 1935-36. Such announcements for the year 1936-37 as can be made at the time of publication are included.

The Bulletin is published in January, February, March, April, May, June, October, November, and December

Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917 authorized January 24, 1921.

HISTORICAL NOTE

Clark University owes its existence to the interest in higher education of Jonas Gilman Clark, who was born at Hubbardston, Worcester County, Massachusetts, February 1, 1815. Conscious of the meagerness of his own early educational opportunities, he devoted his later years to the establishment and nurture of the institution which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester. Mr. Clark died at Worcester on May 23, 1900.

The charter of the University was granted by the General Court of Massachusetts in 1887. The Graduate Division, with Granville Stanley Hall as president, received its first students in 1889. Special provision was made in Mr. Clark's will for the establishment of an Undergraduate Division with its own president but under the same general control as the Graduate Division. Carroll Davidson Wright was chosen president of the Undergraduate Division and students were first received in October, 1902. After the death of President Wright in 1909, Edmund Clark Sanford, then Professor of Psychology in the Graduate Division, was chosen as President of the college.

In June, 1920, Presidents Hall and Sanford resigned and Wallace Walter Atwood was elected to the presidency of both the Graduate and the Undergraduate Divisions of the University.

During the academic year 1920-21 the two faculties continued their separate organizations while plans for unification were being worked out. These plans, approved by the Board of Trustees, went into effect in 1921-22 and provided for the fusion of the two faculties into a single body.

With the election of President Atwood, provision was made for the establishment of a Graduate School of Geography, and work in that school was begun in the fall of 1921.

A Summer School with a six weeks' session has been conducted each year, beginning in 1921.

TABLE OF CONTENTS

HISTORICAL NOTE	2
CALENDAR	5
BOARD OF TRUSTEES, ADMINISTRATIVE OFFICERS	7
UNIVERSITY STAFF	8
GOVERNING BOARDS AND COMMITTEES	14
THE UNIVERSITY	19
Location, Grounds and Buildings	19
Organization	19
The Academic Year	20
Admission	20
Registration	21
Tuition and Fees	21
Dining Hall and Dormitory	23
Other Expenses	24
Fellowships, Scholarships and Loans	24
Health and Physical Training	24
THE LIBRARY	25
Art Department	26
THE UNDERGRADUATE DIVISION—"CLARK COLLEGE"	27
The College	27
Scholarships and Student Aid	27
Admission	29
Faculty Advisers	33
Registration	33
Student Programs	34
Requirements for the Degree of Bachelor of Arts	35
Grading and Scholarship	37
Classification of Students	38
Honors	38
Eligibility	40
Student Life	41
THE GRADUATE DIVISION	42
General Information	42
Admission	43
Scholarships and Fellowships	45
Rules and Regulations	46
THE GRADUATE SCHOOL OF GEOGRAPHY	52
General Statement	52
Courses in Geography	55
THE SUMMER SCHOOL	59
Officers of Instruction and Administration	59
General Statement	59
List of Courses	60

THE DEGREE OF BACHELOR OF EDUCATION	62
Special Courses for Teachers	65
DEPARTMENTAL ANNOUNCEMENTS	66
Ancient Languages	66
Biology	68
Chemistry	73
Economics and Sociology	76
Education	81
English	87
Geography	90
Geology	90
German	90
History and International Relations	93
Physics and Mathematics	99
Psychology	103
Romance Languages	108
DEGREES CONFERRED IN 1935	112
REGISTER OF STUDENTS	114
Summary	122
INDEX	123

CALENDAR

The academic year begins on the Wednesday before the fourth Thursday in September. Commencement Day is the thirty-seventh Monday following (the first or second Monday in June).

The first semester ends on the Saturday before the nineteenth Monday and the second semester begins on the nineteenth Monday of the academic year.

1935

Sept. 23	Monday	Freshman induction.
Sept. 24	Tuesday	Beginning of academic year. Registration day.
Nov. 27	Wednesday	Beginning of Thanksgiving recess at 6 P. M.
Dec. 2	Monday	End of Thanksgiving recess at 8 A. M.
Dec. 20	Friday	Beginning of Christmas recess at 6 P. M.

1936

Jan. 2	Thursday	End of Christmas recess at 8 A. M.
Jan. 13-18		Registration days for second semester.
Jan. 20	Monday	Beginning of semester examination period.
Feb. 1	Saturday	Founder's Day. Not a holiday.
		End of first semester.
		Last day for receiving applications for undergraduate scholarships for the second semester.
Feb. 3	Monday	Beginning of second semester.
Feb. 8	Saturday	Last day for changes in undergraduate programs.
		Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June, 1936.
Feb. 13	Thursday	Last day for payment of term bills.
Feb. 22	Saturday	Washington's Birthday. A holiday.
Feb. 29	Saturday	Last day for receiving applications for graduate scholarships and fellowships for 1936-37.
Mar. 28	Saturday	Mid-semester reports.
Apr. 4	Saturday	Beginning of spring recess at 1 P. M.
Apr. 13	Monday	End of spring recess at 8 A. M.
May 25	Monday	Beginning of semester examination period.
May 30	Saturday	Memorial Day. A holiday.
June 4	Thursday	Last day of semester examinations.
June 5	Friday	Dissertations and theses for the Ph.D. and M.A. degrees. are due at the office of the Recorder at 9 A. M.
June 8	Monday	Commencement Day.
July 6	Monday	Summer School opens. Registration day.
July 11	Saturday	Last day for payment of Summer School tuition.
Aug. 13	Thursday	Final Assembly of the Summer School at 8 P. M.
		Conferring of degrees.
Aug. 14	Friday	Summer School closes.
Sept. 21-22		Freshman induction days.
Sept. 23	Wednesday	Beginning of academic year. Registration day.
Sept. 30	Wednesday	Last day for changes in undergraduate programs.

Oct. 3	Saturday	Last day for payment of term bills.
Oct. 12	Monday	Columbus Day. Not a holiday.
Oct. 31	Saturday	Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June, 1937.
Nov. 11	Wednesday	Armistice Day. Not a holiday.
Nov. 23	Saturday	Mid-semester reports.
Nov. 28	Thursday	Thanksgiving Day. A holiday.
Dec. 19	Saturday	Beginning of Christmas recess at 1 P. M.
1937		
Jan. 4	Monday	End of Christmas recess at 8 A. M.
Jan. 11-16		Registration days for second semester.
Jan. 18	Monday	Beginning of semester examination period.
Jan. 30	Saturday	End of first semester.
		Last day for receiving applications for undergraduate scholarships for the second semester.
Feb. 1	Monday	Founder's Day. Not a holiday.
		Beginning of second semester.
Feb. 6	Saturday	Last day for changes in undergraduate programs.
		Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June, 1937.
Feb. 11	Thursday	Last day for payment of term bills.
Feb. 22	Monday	Washington's Birthday. A holiday.
Feb. 27	Saturday	Last day for receiving applications for graduate scholarships and fellowships for 1937-38.
Mar. 27	Saturday	Mid-semester reports.
Apr. 3	Saturday	Beginning of spring recess at 1 P. M.
Apr. 12	Monday	End of spring recess at 8 A. M.
May 24	Monday	Beginning of semester examination period.
May 31	Monday	Memorial Day. A holiday.
June 3	Thursday	Last day of semester examinations.
June 4	Friday	Dissertations and theses for the Ph.D. and M.A. degrees are due at the office of the Recorder at 9 A. M.
June 7	Monday	Commencement Day.

BOARD OF TRUSTEES

HERBERT PARKER (1907) Vice President	South Lancaster, Mass.
ARTHUR P. RUGG (1910)	Worcester, Mass.
CHARLES H. THURBER (1913), President	Boston, Mass.
GEORGE H. MIRICK (1920), Treasurer	Worcester, Mass.
FREDERIC B. WASHBURN (1925)	Worcester, Mass.
ALEXANDER H. BULLOCK (1926)	Worcester, Mass.
LEON E. FELTON (1930) Secretary	Worcester, Mass.
FRANCIS H. DEWEY, JR. (1934)	Worcester, Mass.

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

ADMINISTRATIVE OFFICERS

President of the University and Director of the Graduate School of Geography	W. W. ATWOOD, SR.
Acting Librarian	EDITH M. BAKER
Dean of the College	H. P. LITTLE
Director of the Summer School	R. S. ILLINGWORTH
Director of Extension Courses	P. H. CHURCHMAN
Recorder	LYDIA P. COLBY
Bursar	FLORENCE CHANDLER

UNIVERSITY STAFF

THE UNIVERSITY FACULTY

(Listed in order of academic seniority within each rank.)

- WALLACE WALTER ATWOOD, PH.D. 160 Woodland St.
President, Professor of Physical and Regional Geography, and Director of the
Graduate School of Geography, since 1920.
B.S., University of Chicago, 1897; Ph.D., 1903.
- HOMER PAYSON LITTLE, PH.D. 156 Woodland St.
Dean of the College and Professor of Geology since 1922.
A.B., Williams College, 1906; Ph.D., Johns Hopkins University, 1910.
- LOUIS N. WILSON, LITT.D. 11 Shirley St.
Librarian 1889-1929. Librarian Emeritus.
- †HENRY TABER, PH.D.
Professor of Mathematics, 1903-21. Professor Emeritus.
- WILLIAM HENRY BURNHAM, PH.D. Bancroft Hotel
Professor of Education and School Hygiene, 1906-26. Professor Emeritus.
- BENJAMIN SHORES MERIGOLD, PH.D. 17 Charlotte St.
Professor of Chemistry and Director of the Chemical Laboratories.
A.B., Harvard University, 1896; A.M., 1897; Ph.D., 1901. Assistant Professor,
1903-08; Professor since 1908.
- GEORGE HUBBARD BLAKESLEE, PH.D., L.H.D. 21 Downing St.
Professor of History and International Relations.
A.B., Wesleyan University, 1883; L.H.D., 1923; A.M., Harvard University,
1900; Ph.D., 1903; L.H.D., Williams College, 1930. Instructor, 1903-4;
Assistant Professor, 1904-09; Professor since 1909.
- PHILIP HUDSON CHURCHMAN, PH.D. 20 Institute Rd.
Professor of Romance Languages and Director of Extension Courses.
A.B., Princeton University, 1896; A.M., 1903; Ph.D., Harvard University, 1908.
Assistant Professor, 1908-11; Professor since 1911.
- HAVEN DARLING BRACKETT, PH.D. 114 Woodland St.
Professor of Greek and Latin.
A.B., Amherst College, 1898; Ph.D., Harvard University, 1904. Instructor, 1904-
06; Assistant Professor, 1906-12; Professor since 1912.
- LEROY ALLSTON AMES, A.M. 166 Woodland St.
Professor of English Literature.
A.B., Harvard University, 1896; A.M., 1901. Instructor, 1908-10; Assistant
Professor, 1910-15; Professor since 1915.

†Died January 6, 1936.

LORING HOLMES DODD, PH.D. 88 Sagamore Rd.

Professor of Rhetoric. Curator of Art.

A.B., Dartmouth College, 1900; A.M., Columbia University, 1901; Ph.D., Yale University, 1907. Instructor, 1910-13; Assistant Professor, 1913-16; Associate Professor, 1916-20; Professor since 1920.

*ROBERT HUTCHINS GODDARD, PH.D. 1 Tallawanda Dr.

Professor of Physics and Director of the Physical Laboratories.

B.S., Worcester Polytechnic Institute, 1908; A.M., Clark University, 1910; Ph.D., 1911. Instructor, 1914-15; Assistant Professor, 1915-19; Associate Professor, 1919-20; Professor since 1920.

SAMUEL J. BRANDENBURG, PH.D. 173 Woodland St.

Professor of Economics and Sociology since 1923.

A.B., Miami University, 1904; Ph.M., University of Chicago, 1909; Ph.D., University of Wisconsin, 1922.

CARL MURCHISON, PH.D., SC.D. 11 Downing St.

Professor of Psychology, Chairman of the Department of Psychology and Director of the Clark University Press, since 1923.

A.B., Wake Forest College, 1909; Sc.D., 1930; Ph.D., Johns Hopkins University, 1923.

WILLIAM HOMER WARREN, PH.D. 166 Woodland St.

Professor of Organic Chemistry.

A.B., Harvard University, 1889; A. M., 1891; Ph.D., 1892. Assistant Professor, 1911-12; Professor since 1925 (February).

WALTER SAMUEL HUNTER, PH.D. 171 Woodland St.

G. Stanley Hall Professor of Genetic Psychology since 1925.

A.B., University of Texas, 1910; Ph.D., University of Chicago, 1912.

*DOUGLAS CLAY RIDGLEY, PH.D.

Professor of Geography in Education.

A.B., Indiana University, 1893; M.S., University of Chicago, 1922; Ph.D., Clark University, 1925. Lecturer in Geography, 1922-24; Associate Professor, 1924-27; Professor since 1927.

CLARENCE FIELDEN JONES, PH.D. 193 Lovell St.

Professor of Economic Geography.

B.S., University of Chicago, 1917; Ph.D., 1923. Assistant Professor, 1923-26; Associate Professor, 1926-28; Professor since 1928.

WALTER ELMER EKBLAW, PH.D. Wheeler Ave., N. Grafton, Mass.

Professor of Geography.

A.B., University of Illinois, 1910; A.M., 1912; Ph.D., Clark University, 1926. Associate Professor, 1926-28; Professor since 1928.

HUDSON HOAGLAND, PH.D. 150 Woodland St.

Professor of Physiology and Director of the Biological Laboratories since 1931.

A.B., Columbia University, 1921; M.S., Massachusetts Institute of Technology, 1924; Ph.D., Harvard University, 1927.

*Absent on leave, 1935-36.

- CAREY EYSTER MELVILLE, A.B. 16 Isabella St.
Associate Professor of Mathematics.
A.B., Northwestern University, 1901. Assistant in Mathematics, 1906-09; Instructor, 1909-11; Assistant Professor, 1911-14; Associate Professor since 1918. Registrar, 1914-32.
- VERNON JONES, PH.D. 54 May St.
Associate Professor of Educational Psychology since 1926.
A.B., and A.M., University of Virginia, 1920; A.M., Columbia University, 1924; Ph.D., 1926.
- JAMES ACKLEY MAXWELL, PH.D. 24 Loudon St.
Associate Professor of Economics.
A.B., Dalhousie University, 1921; A.M., Harvard University, 1923; Ph.D., 1927 (Feb.). Instructor, 1924-26; Assistant Professor, 1926-28; Associate Professor since 1928.
- ARTHUR FLETCHER LUCAS, PH.D. 78 Downing St.
Associate Professor of Economics and Sociology.
A.B., Bates College, 1920; A.M., Princeton University, 1923; Ph.D., 1925. Assistant Professor, 1926-29; Associate Professor since 1929.
- DWIGHT ERWIN LEE, PH.D. 8 Shepard St.
Associate Professor of Modern European History.
A.B., University of Rochester, 1921; A.M., 1922; Ph.D., Harvard University, 1928 (Feb.). Assistant Professor, 1927-30; Associate Professor since 1930.
- PERCY MARTIN ROOPE, PH.D. 8 Virginia Rd.
Associate Professor of Physics.
A.B., Clark University, 1920; A.M., 1924; Ph.D., 1927. Instructor, 1921-27; Assistant Professor, 1927-31; Associate Professor since 1931.
- HENRY DONALDSON JORDAN, PH.D. 20 Loudon St.
Associate Professor of English History since 1931.
A.B., Harvard University, 1918; A.M., 1922; Ph.D., 1925.
- ROBERT STANLEY ILLINGWORTH, A.M., ED.M. 209 Lovell St.
Associate Professor of English since 1931. Director of the Summer School.
A.B., Clark University, 1917; A.M., Lafayette College, 1926; Ed.M., Harvard University, 1933.
- SAMUEL VAN VALKENBURG, PH.D. 10 South Flag St.
Associate Professor of Climatology and Regional Geography.
Ph.D., University of Zurich, 1918. Special Lecturer in Geography, second semester, 1926-27; Assistant Professor, 1927-29; Associate Professor since 1932.
- JESSE LUNT BULLOCK, PH.D. 35 Downing St.
Associate Professor of Chemistry.
A.B., Harvard University, 1914; A.M., 1928; Ph.D., 1932. Assistant Professor, 1926-32; Associate Professor since 1932.

HEINRICH MORANT BOSSHARD, PH.D. 952 Main St., Leicester, Mass.
Associate Professor of German.
Ph.D., University of Zürich, 1919; M. Ed., Harvard University, 1921. Assistant Professor, 1927-32; Associate Professor since 1932.

DAVID POTTER, PH.D. 974 Main St.
Associate Professor of Biology.
B.Sc., Massachusetts Agricultural College, 1916; M.Sc., 1923; Ph.D., Harvard University, 1931. Instructor, 1924-27; Assistant Professor, 1927-33; Associate Professor since 1933.

DAVID MITCHELL DOUGHERTY, PH.D. 5 Columbine Rd.
Assistant Professor of Romance Languages since 1931.
A.B., University of Delaware, 1925; A.M., Harvard University, 1927; Ph.D., 1932.

CLARENCE HENRY GRAHAM, PH.D. 166 Woodland St.
Assistant Professor of Psychology since 1931.
A.B., Clark University, 1927; A.M., 1928; Ph.D., 1930.

WALLACE WALTER ATWOOD, JR., PH.D. 88 Morningside Rd.
Assistant Professor of Physiography and Regional Geography since 1932 (February). B.S., University of Chicago, 1926; A.M., Clark University, 1927; Ph.D., 1930.

RAY ALLEN BILLINGTON, PH.D. 1 Woodbine St.
Assistant Professor of History.
Ph.B., University of Wisconsin, 1926; A.M., University of Michigan, 1927; Ph.D., Harvard University, 1933. Instructor, 1931-34; Assistant Professor since 1934.

HAROLD S. JANTZ, PH.D. 9 Hawthorne St.
Assistant Professor of German since 1934.
A.B., Oberlin College, 1929; A.M., University of Wisconsin, 1930; Ph.D., 1933.

WILLOUGHBY M. CADY, PH.D. 11 Elmwood St.
Assistant Professor of Physics since 1934.
A.B., Brown University, 1927; Ph.D., Harvard University, 1932.

LOUIS BALSAM, PH.D. 39 May St.
Assistant Professor of Sociology since 1934.
B.S., Tufts College, 1932; A.M., Harvard University, 1933; Ph.D., 1934.

C. LADD PROSSER, PH.D. 53 Maywood St.
Assistant Professor of Physiology since 1935.
A.B., University of Rochester, 1929; Ph.D., Johns Hopkins University, 1932.

CHARLES M. POMERAT, A.M. 914 Main St.
Instructor in Biology.
A.B., Clark University, 1932; A.M., Harvard University, 1934. Assistant in Biology, 1929-33; Instructor since 1933.

CHARLES J. OLSON, JR., A. M. 144 Woodland St.
Instructor in English since 1934. Proctor, Estabrook Hall.
A.B., Wesleyan University, 1932; A.M., 1933.

OTHER MEMBERS OF THE STAFF

RAYMOND ROYCE WILLOUGHBY, PH.D. Research Associate in Psychology.	32 Wayne St.
GUY H. BURNHAM, A.M. Cartographer, Graduate School of Geography.	19 Woodman Rd.
ERNEST RAYMOND WHITMAN Director of Physical Education.	48 Downing St.
*RALPH WARNER ELLIS, M.D. Medical Director.	574 Main St.
FLORENCE CHANDLER Bursar.	18 Downing St.
LYDIA P. COLBY Recorder.	276 Highland St.
H. EARLE JOHNSON Director of the Musical Clubs.	149 Elm St., New Haven, Conn.
JOHN W. BOARDMAN Superintendent of Buildings and Grounds.	15 Shirley St.

STUDENT ASSISTANTS

Biology

MORTON A. RUBIN, A.M.

Chemistry

ROBERT J. ANICETTI, A.B.

AXEL V. HOLMGREN, A.M.

ALBERT P. GIRAITIS, B.S.

ILMARI F. SALMINEN, A.M.

Economics and Sociology

RANDLE E. DAHL, A.M.

H. WALTER HARGREAVES, A.B.

Geology

ROGER G. GIFFORD

* Died March 3, 1936

History and International Relations

NELSON M. BLAKE, A.M.

WALTER G. INMAN, A.M.

C. LEONARD HOAG, A.M.

LEFTEN S. STAVRIANOS, A.M.

Physics

DAVID L. ARENBERG, B.S.

Psychology

JOHN J. BROCKWELL, B.S.

ROSALINE GOLDMAN, A.M.

RALPH E. GARNER, A.B.

FREDERICK A. MOTE, JR., A.M.

LORRIN A. RIGGS, A.M.

TUTOR IN THE DEPARTMENT OF GERMAN

WILLIAM E. MARCHANT, A.M.

GOVERNING BOARDS AND COMMITTEES

THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general educational work of the University and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Benjamin S. Merigold.

THE UNIVERSITY SENATE

An advisory board appointed by the President

President Wallace W. Atwood, *ex officio*

George H. Blakeslee
Samuel J. Brandenburg
Philip H. Churchman
Loring H. Dodd

Clarence F. Jones
Walter S. Hunter
Homer P. Little
William H. Warren

Hudson Hoagland

THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division of the University and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Wallace W. Atwood, *ex officio*

George H. Blakeslee
Samuel J. Brandenburg
W. Elmer Ekblaw
Robert H. Goddard
Clarence H. Graham
Hudson Hoagland
Walter S. Hunter

Clarence F. Jones
Dwight E. Lee
James A. Maxwell
Benjamin S. Merigold
Carl Murchison
William H. Warren

H. Donaldson Jordan, *Secretary*

THE COLLEGE BOARD

The College Board consists of the President, the Dean of the College, and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division, subject to the control of the Faculty, and recommends to the Faculty candidates for the degree of Bachelor of Arts.

President Wallace W. Atwood	} <i>ex officio</i>
College Dean Homer P. Little	

Ray H. Billington

David Potter

Jesse L. Bullock

Percy M. Roope

David M. Dougherty

Carey E. Melville, *Secretary*

THE COMMITTEE ON EXTENSION COURSES AND SPECIAL STUDENTS

The Committee exercises general supervision over "courses of college grade for adults" and over special students including candidates for the degree of Bachelor of Education, and recommends to the Faculty candidates for this degree.

President Wallace W. Atwood, *ex officio*Philip H. Churchman, *Chairman*

Samuel J. Brandenburg

Homer P. Little

Vernon Jones

H. M. Bosshard

The Director of the Summer School, *ex officio*

THE COMMITTEE ON THE SUMMER SCHOOL

President Wallace W. Atwood, *ex officio*

Director of the Summer School, Robert S. Illingworth

George H. Blakeslee

S. Van Valkenburg

Samuel J. Brandenburg

THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected annually to advise the President regarding the personnel and the organization of departments.

George H. Blakeslee

Homer P. Little

Samuel J. Brandenburg

Carey E. Melville

H. Donaldson Jordan

THE COMMITTEE ON COURSES IN EDUCATION

A standing committee of the Faculty on which is placed the responsibility of providing, in coöperation with the several departments,

courses in Education in sufficient number and variety to enable graduates of the College to meet the current requirements of the near-by states for positions in the public school systems.

President Wallace W. Atwood, *ex officio*

Vernon Jones, *Chairman*

Philip H. Churchman

Robert S. Illingworth

THE COMMITTEE ON CURRICULUM

President Wallace W. Atwood } *ex officio*
Dean Homer P. Little }

Philip H. Churchman, *Chairman*

Leroy A. Ames

Vernon Jones

Loring H. Dodd

Dwight E. Lee

Samuel J. Brandenburg

STANDING COMMITTEES OF THE GRADUATE BOARD

THE COMMITTEE ON CREDENTIALS

The committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to fellowships and scholarships and candidacy for graduate degrees.

President Wallace W. Atwood, *ex officio*

Clarence F. Jones, *Chairman-Secretary*

George H. Blakeslee

Carl Murchison

Samuel J. Brandenburg

William H. Warren

THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

President Wallace W. Atwood, *ex officio*

Philip H. Churchman, Professor of Romance Languages

Heinrich M. Bosshard, Associate Professor of German

A representative of the student's major department.

STANDING COMMITTEES OF THE
COLLEGE BOARD

EXECUTIVE COMMITTEE

President Wallace W. Atwood } *ex officio*
 Dean Homer P. Little }

Carey E. Melville, *Secretary* David Potter

THE COMMITTEE ON ADMISSIONS

President Wallace W. Atwood } *ex officio*
 Dean Homer P. Little, *Chairman* }

Samuel J. Brandenburg Carey E. Melville
 Robert S. Illingworth Benjamin S. Merigold

COMMITTEE ON DEPARTMENTAL HONORS

President Wallace W. Atwood } *ex officio*
 Dean Homer P. Little }
 Vernon Jones, *Chairman*

Leroy H. Ames H. Donaldson Jordan
 Samuel J. Brandenburg David Potter
 David M. Dougherty

THE COMMITTEE ON ATHLETICS

President Wallace W. Atwood } *ex officio*
 Dean Homer P. Little, *Chairman* }

James A. Maxwell Ernest R. Whitman
 David Potter Wallace W. Atwood, Jr.

THE COMMITTEE ON AUTHORIZED EXCURSIONS

President Wallace W. Atwood } *ex officio*
 Dean Homer P. Little }
 Carey E. Melville

COMMITTEE ON STUDENT FINANCES

President Wallace W. Atwood } *ex officio*
 Dean Homer P. Little }
 Guy H. Burnham, *Chairman*

James A. Maxwell Ernest R. Whitman

COMMITTEE ON SOCIAL AFFAIRS

President Wallace W. Atwood	}	<i>ex officio</i>
Dean Homer P. Little		
Jesse L. Bullock, <i>Chairman</i>		
H. Donaldson Jordan		William H. Warren

COMMITTEE ON FRATERNITIES

President Wallace W. Atwood	}	<i>ex officio</i>
Dean Homer P. Little		
Dwight E. Lee, <i>Chairman</i>		
W. Elmer Ekblaw		Arthur F. Lucas

COMMITTEE ON PUBLICATIONS

President Wallace W. Atwood	}	<i>ex officio</i>
Dean Homer P. Little		
Leroy A. Ames, <i>Chairman</i>		
Heinrich M. Bosshard		Percy M. Roope

THE UNIVERSITY

THE LOCATION

Clark University is located in Worcester, Massachusetts, an industrial and educational center with a population of about two hundred thousand. It is distant about forty miles from Boston and from Providence, and about two hundred miles from New York City.

GROUNDS AND BUILDINGS

The university campus is a tract of about eight acres bounded by Main, Woodland, Maywood, and Downing Streets, about a mile and a quarter from the City Hall. Here the principal buildings are located. Besides this tract, the institution owns the athletic grounds between Maywood and Beaver Streets, where the tennis courts are located, the athletic field of about six acres at the corner of Park Avenue and Beaver Street, about five minutes' walk from the University, the land on the corner of Woodland and Charlotte Streets, where Estabrook Hall is located, the adjacent Fanning estate and other property opposite the campus on Woodland Street, the Hadwen Arboretum on Lovell Street, and several dwellings occupied by members of the staff. The residences of the President and of the Dean of the College are on Woodland Street, opposite the campus.

ORGANIZATION

The UNIVERSITY includes :

THE UNDERGRADUATE DIVISION offering to men a general college course leading to the degree of Bachelor of Arts.

THE GRADUATE DIVISION offering advanced instruction leading to the degrees of Master of Arts and of Doctor of Philosophy.

THE GRADUATE SCHOOL OF GEOGRAPHY offering special training leading to higher degrees in geography.

THE SUMMER SCHOOL offering both undergraduate and graduate instruction with special reference to candidates for the degrees of Bachelor of Education and Master of Arts.

THE EXTENSION DIVISION offering courses at the University in the late afternoon and on Saturday, with special reference to the needs of candidates for the degree of Bachelor of Education.

THE LIBRARY with its separate endowment, offering unusual opportunities for study and research.

THE CLARK UNIVERSITY PRESS is associated with the University under the direction of a Board of Governors appointed by the Trustees of the University. It is not a service department of the University, but a self-supporting enterprise engaged in the publication of scientific books and journals.

THE DEPARTMENTS at present offering courses of study are:

1. Ancient Languages and Literatures
2. Biology
3. Chemistry
4. Economics and Sociology
5. English Language and Literature
6. Geography
7. Geology
8. German Language and Literature
9. History and International Relations
10. Physics and Mathematics
11. Psychology and Education*
12. Romance Languages and Literatures

THE ACADEMIC YEAR

The academic year begins on the Wednesday before the fourth Thursday in September, and Commencement Day is the thirty-seventh Monday following (first or second Monday in June). The first semester ends on the Saturday before the nineteenth Monday, and the second semester begins on the nineteenth Monday of the academic year. There are two recesses during the college year: two weeks including Christmas and New Year's Day; and the first full week in April. University exercises are suspended also on Thanksgiving Day, Washington's Birthday, and Memorial Day.

The Summer School begins on a Monday near the first of July and continues in session for six weeks.

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

ADMISSION

Three classes of students are admitted:

1. Undergraduates. For requirements see announcement of the Undergraduate Division.
2. Graduate students. For requirements see announcement of the Graduate Division.

*Beginning September 1936, the department of Education will be reestablished as a separate department.

3. Special students. (a) Mature persons, not candidates for a degree, who wish to take advantage of the opportunities for study afforded by the University, and who give satisfactory evidence of adequate preparation for the work which they wish to undertake. (b) Students who are candidates for the degree of Bachelor of Education. For requirements see announcement of the Bachelor of Education degree.

Requests for information and for application forms should be addressed to the OFFICE OF THE UNIVERSITY, 950 MAIN STREET, WORCESTER, MASSACHUSETTS.

REGISTRATION

The first day of the academic year and of the summer session is devoted to the registration of programs of study. Registration for the second semester is required not later than the sixteenth day (Saturday) before the beginning of the semester.

Failure to register at the time designated is penalized, in the case of undergraduates, by a charge of one dollar for each day's delay up to a maximum of five dollars.

TUITION AND FEES

TUITION

Tuition, undergraduate and graduate, is \$200 per year. In addition to the tuition the University collects from each undergraduate five dollars each semester for the support of "student activities." Students enrolled in fewer than four courses are charged at the rate of \$30 per course for a semester. A proportionate charge is made for fractional courses. Tuition is payable in two equal installments, due at the beginning of each semester. If the tuition is not paid within ten days after it is due the enrollment of the student lapses. A student whose enrollment has lapsed for non-payment of tuition may be re-enrolled, with permission of the proper administrative officer on payment of the overdue tuition with an additional fee of \$2.

Tuition in the Summer School is \$20 for a single course, \$35 for two or three courses, and \$45 for four courses. Tuition may be paid at any time before the opening of the Summer School, and must be paid by noon of the first Saturday of the term.

Tuition in special courses for teachers (courses of college grade for adults) is \$8.00 for a course meeting one hour per week for one semester and \$15 for a course meeting two hours a week for one semester.

The following regulation was adopted by the Trustees at a meeting held March 28, 1931.

"No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun."

MATRICULATION FEE

A matriculation fee of \$5.00 is required of all students formally enrolled in Clark University. This fee is paid but once, and permits a student to return successive years, or after a period of absence, without further charge for matriculation.

Students who register for the Summer School pay the matriculation fee.

Students enrolled as "auditors" are not required to matriculate.

Official statements of record are issued by the Recorder of the University for matriculated students only.

LABORATORY FEES AND DEPOSITS

Laboratory fees are charged at the rate of \$5.00 each semester for undergraduate laboratory courses.

A deposit of \$10 for each course, to cover breakage, is required of students taking undergraduate laboratory work in chemistry. The department notifies the Bursar at the end of the year of the total charges against the student for breakage, and any balance remaining is returned. If the deposit is not sufficient to cover the breakage charges, any excess is collected by the Bursar.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

A deposit of \$25 is required of each graduate student in the Department of Chemistry, at the beginning of the year. Ordinary supplies and materials are charged to the student's account at cost. Any balance remaining is refunded at the end of the year.

Laboratory fees and deposits for breakage are due at the time of registration for the courses.

PUBLICATION FEES

Publication fees, \$10 for the Master of Arts thesis and \$15 for the Doctor of Philosophy dissertation, are due when applications for admission to candidacy are filed.

DIPLOMA FEES

Diploma fees are charged according to the following schedule:

\$5.00, for the Bachelor of Arts or the Bachelor of Education diploma, due at the beginning of the second semester of the year in which the candidate expects to receive the degree.

\$10, for the Master of Arts diploma, due when application for admission to candidacy is filed.

\$25, for the Doctor of Philosophy diploma, due when application for admission to candidacy is filed.

DINING HALL AND DORMITORY

Board at the Dining Hall is furnished at a reasonable rate which has varied from year to year. During the current year the charge is \$7.50 per week, with *no refunds for absences except in cases of protracted illness.*

Undergraduates who do not live in their own homes are required to board at the Dining Hall.

Estabrook Hall, the undergraduate dormitory completed in 1924, provides accommodations for about fifty students. Two students in a suite of two rooms are charged \$150 each; two in one room, \$115 each except on the mezzanine floor where the charge is \$135 for each student. Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. Each student is required to deposit \$25 before occupying a room. This deposit is returned, less a charge for lights and any charges for damages to the room or its furnishings, when the key to the room is surrendered to the Bursar.

Freshmen not living in their own homes are required to room in Estabrook Hall.

Rooms are assigned to freshmen in order of application, when the application is accompanied by the deposit of \$25. Students who indicate a desire to room together will be accommodated whenever possible. Rooms not required for freshmen may be rented by upper classmen or by graduate students.

The University has dormitory accommodations in the "Faculty House" for a small number of graduate students.

OTHER EXPENSES

Students will find that the necessary expenses of living in Worcester are comparable with similar costs in any large city. The total is largely dependent upon the individual's habits and tastes.

Lodgings may be secured at a reasonable cost in private houses within convenient distance from the campus.

The cost of books varies with the programs of study. The University maintains a bookstore where textbooks and supplies may be procured.

FELLOWSHIPS, SCHOLARSHIPS AND LOANS

Fellowships, scholarships and loans or other grants for graduate students are available as stated in the announcement of the Graduate Division.

Undergraduate scholarships and loans or other grants are available as stated in the announcement of the Undergraduate Division.

HEALTH AND PHYSICAL TRAINING

The Medical Director, Doctor Ralph W. Ellis, exercises general supervision over matters of health and hygiene in the University. For undergraduates a thorough medical examination is required at the beginning and end of each year.

The Medical Director is available during the academic year for conferences and medical advice. It is intended that his services shall be primarily of a preventive nature. The University does not conduct an infirmary and does not undertake to care for cases of illness requiring medical attention or hospital accommodations, although it will co-operate in every possible way in meeting such emergencies.

The Director of Physical Education has supervision over all required physical training and other athletic activities. In the matter of intercollegiate contests he is assisted by the Committee on Athletics.

The gymnasium is located on the ground floor of Jonas G. Clark Hall. Individual steel lockers and an ample number of shower baths are provided.

THE LIBRARY

EDITH M. BAKER, *Acting Librarian*

HELEN J. ELLIOT, *Cataloguer*

Assistants

DOROTHY M. DICKINSON

MARION HENDERSON

EDITH L. SAWYER

MARJORIE WHITNEY

Student Assistants

R. G. GIFFORD

A. S. JOHNSON

The Library, under the terms of Mr. Clark's will, received one quarter of his estate for the "support and maintenance of a University Library." Thus the Library is well endowed and is able to provide amply for the needs of all departments. It contains over 151,000 bound volumes and pamphlets, and the readingroom receives about 500 journals.

Particular attention is paid to the needs of students engaged in research work. The Library already possesses a good collection of complete sets of the best scientific periodicals. It makes liberal purchases for individual needs and supplements these by drawing upon the resources of the older and larger libraries through the inter-library loan system. The number of books added each year is about 3,000 volumes.

The books in the Art Department are accessible on application to the Librarian, but, by the terms of the Founder's will, they *cannot* be taken from the building.

All regular privileges of the Library are open to all members of the University.

Tuesday and Friday mornings, each week, all books recently added to the Library are placed upon a table in the reference section, where they remain for three days. This affords the members of the University an opportunity to examine the new books in all departments before they are placed upon the shelves for circulation.

The Library is open from 8 a. m. to 10 p. m. each week day (except on legal holidays), during the regular sessions of the University. During the Summer School session the Library is open from 8 a. m. to 6 p. m.

ART DEPARTMENT

In his last will and testament the Founder of the University bequeathed

"the sum of \$100,000, as an endowment fund for the Art Department of said University, and said sum is to be held and kept sacred and intact as a principal not to be used or expended under any conditions; but the income, interest or proceeds thereof shall be used only in putting and keeping said works of art or others given or obtained for said department in good condition and in taking care of them; and then if there is a surplus of the income of said fund, I will and direct that it be used in the purchase of additional works of art or of such matters as will add to the usefulness and efficiency of said Art Department."

Under these conditions a large room has been furnished and equipped on the upper floor of the Library Building. Upon the death of Mrs. Clark, those works of art of the Founder's collection which were deemed most suitable for this purpose were arranged and displayed in this room, together with his most valuable books, which by the conditions of the will cannot be removed from the building. A complete catalogue of these books and paintings has been published in the Publication of the Library, Vol. 2, No. 1.

The most recent addition to the collection is a portrait of Louis N. Wilson, librarian of Clark University from 1889 to 1929, librarian emeritus, 1929-, by Leopold Seyffert of New York.

The Art Department is open daily (except Sundays and holidays) from 9 a. m. to 5 p. m.

THE UNDERGRADUATE DIVISION

"CLARK COLLEGE"

When the College was established in 1902, a three-year course was adopted as the normal one for the baccalaureate degree. This innovation was due to the emphasis placed upon a three-year course in the will of the Founder, based on a conviction that properly prepared students could secure in three years, under favorable conditions, a training essentially equivalent to that ordinarily obtained in a four-year college course. Increasing pressure, both for the admission of high school graduates who could not qualify for the three-year course and for a larger development of extra-curricular activities, led ultimately to the abandonment of the original plan. Beginning with the class which entered in September, 1922, a four-year course became the normal one leading to the degree of Bachelor of Arts. The opportunity to complete the course in three years is still open to well prepared and serious students as in other colleges. Only a small number avail themselves of this opportunity.

The College has a competent faculty and is well equipped for the work which it undertakes. A general program leading to the degree of Bachelor of Arts is offered. Distinctly vocational or professional programs are not offered.

A complete statement in regard to fees and expenses will be found under the heading TUITION AND FEES.

SCHOLARSHIPS AND STUDENT AID

THE JONAS G. CLARK SCHOLARSHIPS established by the Trustees in January, 1925, provide scholarships of the value of one hundred dollars each to fifty undergraduates.* Twenty of these scholarships are reserved for applicants for admission to the freshman class who rank in the upper quarter of their graduating classes in preparatory schools, eight of them being for graduates of the High Schools of Worcester. Of the remaining thirty scholarships, ten are reserved for each of the three upper classes, for students who rank in the upper quarter of each class.

These grants are for the encouragement of high grade scholarship. In conformity with this purpose they are subject to the following

*Thirty additional scholarships have been offered currently to entering freshmen as a contribution by the University toward the alleviation of the existing conditions of widespread unemployment and reduced incomes.

conditions: (1) one-half the value of the scholarship is deducted from the term bill of the holder at the beginning of each semester; (2) a scholarship is automatically forfeited for the second semester if the holder fails to maintain a rank in the upper half of his class during the first semester.

THE SANFORD MEMORIAL SCHOLARSHIP FUND, established by alumni of the University provides an annual scholarship, amounting at present to \$200, for a student in the college.

THE LIVERMORE AND AMBULANCE SCHOLARSHIP was endowed by citizens of Worcester in honor of Charles Randall Livermore, the first Clark man to fall in battle in the World War, and of his companions in the Clark Unit of Ambulance Drivers. Fifty dollars or more is offered annually, to be awarded on the basis of academic success, character and usefulness to the College. The scholarship is open to students who are residents of Worcester County.

THE HENRY A. WILLIS FUND provides scholarships for students from Fitchburg, Massachusetts, and vicinity. In the absence of suitable candidates from this community grants may be made to others.

THE B'NAI BRITH SCHOLARSHIP, provided by the Order of B'nai Brith, is primarily but not exclusively for the aid of Jewish students.

THE CLARK UNIVERSITY FACULTY WOMEN'S CLUB offers a \$100 scholarship to an applicant who ranks high in intellectual and personal qualities. The club is assisted by alumnae and wives of alumni. Application should be addressed to The Chairman, Scholarship Committee, Clark University Faculty Women's Club.

Applications for undergraduate scholarships should be filed at an early date on blanks which may be secured at the general office. Awards are made by the College Board.

The Board expressly reserves the right to award fewer than the full number of scholarships in any year if for any reason this may seem advisable.

Aid given in the form of scholarships is not regarded as a loan. It is recognized, however, that those who receive such aid may wish to return the amount in later years. *Any sums received from this source will be added to the ALUMNI LOAN FUND of the College.*

LOAN FUNDS

THE ALUMNI LOAN FUND is a permanent revolving fund established by the Trustees and the Alumni. To this has been added a fund of about \$500 contributed by L. Kelly Foster, C. B. L. Kelley, Isadore Lubin, H. M. Smith, and others.

THE ESTABROOK LOAN FUND was created by the generosity of the late Arthur F. Estabrook of the Board of Trustees.

Loans from these funds are made to undergraduates by the Dean of the College in coöperation with the Alumni Committee on Loans. Loans are covered by endorsed notes payable at a fixed date and bear interest at the rate of 6 per cent per year.

THE SARAH M. THURBER LOAN FUND was established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Such loans bear interest at the rate of 6 per cent per year.

Interest received from loans is in all cases added to the fund from which the loan was made.

ADMISSION

Inquiries regarding admission and requests for blank forms should be addressed to the Dean of the College. Application for admission should preferably be made by March 1. *No application received after August 1 can be promised consideration.*

Every admission is an "admission on trial" to the actual work at the College. The University reserves the right to require the withdrawal at any time of any student whose record in either conduct or scholarship fails to meet the expectations implied by his admission.

Application blanks, as well as official transcripts of preparatory school records and certificates of character should be sent directly to the College by the school officials who sign them.

Special students are not admitted to the College. They may be admitted to the University on the recommendation of a department and under the supervision of the Committee on Extension Courses and Special Students.

ADMISSION TO THE FRESHMAN CLASS

Satisfactory references as to character and the completion of a four-year high school course or its equivalent, including fifteen units of credit in acceptable subjects, are required for admission to the freshman class. A statement of "quality requirements" will be found in the following section.

The term "unit" is understood to mean approximately one-quarter of a pupil's normal program of work for the school year.

The "fifteen units of credit in acceptable subjects" must include the "required subjects," 5 units; not less than seven units from the "restricted electives"; and not more than three units from "free electives."

A normal preparatory program will include:

Required subjects, 5 units

English, 3 units (4 years)

Mathematics, 2 units (Algebra and Geometry)

Restricted electives, 7 or more units (see note 1) chosen from

Foreign language, 2, 3 or 4 units (see note 2)

Social sciences, 2 or 3 units (see note 3)

Natural sciences, 2 or 3 units (see note 4)

Mathematics, 1 or 2 units (in addition to required units)

Free electives, not more than 3 units, at the discretion of the committee on admissions, in "commercial subjects" or other subjects recognized by the preparatory school in its regular program leading to graduation.

NOTE 1. Each of the first three groups of subjects under "restricted electives" must be continued in college. Any deficiency in the number of units presented for admission involves an increased requirement in college in the corresponding group of subjects.

NOTE 2. The college does not recognize less than 2 units in any foreign language.

NOTE 3. History, Government, Civics, Economics, etc.

NOTE 4. Physics, Chemistry, Biology, etc.

An applicant for admission to the freshman class should supply, on blanks furnished by the college:

1. A signed application for admission which should be forwarded by the principal of the school in which the applicant has prepared for college, after the "Personality Rating Scale" has been completed by a responsible officer of the school. This application should be filed with the Dean at the earliest practicable date.
2. A complete statement of his preparatory school record and of the subjects in which he can be "certified". This should be mailed to the Dean by an officer of the school, preferably immediately after the end of the first half of the senior year. Records received at this time will be returned to the school for final "certification" at the end of the year. (See statement below in regard to certification.)
3. Records of any entrance examinations which he may have taken and of any action by any other college in respect to admission.

QUALITY REQUIREMENTS

Applicants whose references are satisfactory and who are "certified" in fifteen acceptable units from approved schools will be admitted without conditions.

"Certification" for less than fifteen units may be accepted; (a) for *admission with conditions* (see below) if at least thirteen units are "certified" and the remainder of the required fifteen units are "passed"; (b) for admission, with or without conditions, if supplemented by a satisfactory record in College Board examinations in subjects not certified.

Certificates are accepted from schools on the list of the New England College Entrance Certificate Board. Schools located in New England but not on this list may apply for "specimen" certification privileges to the Secretary of the Board, Dean Frank W. Nicolson, Wesleyan University, Middletown, Connecticut.

A certificate from a school, not on the list approved by the Board, can be considered only when the school lies outside of the jurisdiction of the Board. In such cases "certification" will be interpreted, in the spirit of the regulations of the Board. It will be assumed that the school is willing to be judged in respect to continued "certification" privilege, on the basis of the college records of the candidates in subjects which are "certified".

ENTRANCE EXAMINATIONS

Applicants who cannot present at least thirteen "certified" units should arrange in consultation with the Dean of the College to take "College Board" examinations in June. Information concerning these examinations may be obtained from school officers or by addressing the College Entrance Examination Board at 431 West 117th St., New York City. Applications for examinations must be received by the Board before the end of May.

Those who make a satisfactory record in designated examinations may be admitted to the College with or without conditions. The College will determine in each case what constitutes a satisfactory record in the examinations.

A final opportunity to qualify for admission by examination is offered at the College immediately before the opening of the academic year in September. These examinations are provided by the College Entrance Examination Board, and are intended to supplement those held in June. Admission to these examinations is by special permission in each case. A fee of \$5.00 is charged by the College for a single examination, with an additional fee of \$3.00 for each additional subject.

ADMISSION WITH CONDITIONS

Applicants who present fifteen "passed" units in acceptable subjects but who are not "certified" in one or, at most, two units, may

be admitted with one or with two conditions respectively. Applicants whose shortage in "certified" units is more than two have an opportunity to qualify for admission, with or without conditions, by satisfactory records in "College Board" examinations.

Conditions may be in specified subjects, or may be general, in the latter case indicating some deficiency in the high school course as a whole. All conditions are terminated at the beginning of the sophomore year either by removal in the manner specified below or by additions to the requirements for graduation.

Conditions are removed if at the end of the freshman year the conditioned student has met the normal scholarship requirements for regular standing, namely, no failures and grades above D+ in three fourths of the total credit earned at that date. Conditions may also be removed by satisfactory records in "College Board" examinations covering the conditioned subjects in June or September following the freshman year.

Applications for examinations in September, for the removal of conditions, should be filed with the Recorder not later than the first of July preceding the date of the examinations. The fee for examination must be paid when applications are filed.

Each condition not removed at the beginning of the sophomore year will be replaced by an additional requirement for graduation amounting to one half-course.

ADMISSION TO ADVANCED STANDING

A student who wishes to enter the College after having been enrolled in another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the institution last attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally assigned to the freshman, sophomore, junior, or senior class and will be permitted to register for a suitable program. He will not be given a final class rating until he has been in residence for at least one semester. After satisfying this requirement he will be given conditional credit for the work done elsewhere to an amount determined by vote of the College Board, on the recommendation of the Recorder and the departments concerned.

The Bachelor's degree will not be conferred upon a student who has not spent at least a year in residence at Clark University, and usually not unless the period of residence includes the two semesters immediately preceding the granting of the degree.

FACULTY ADVISERS

When a student is admitted to the College he is assigned to a member of the faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel, either in regard to problems of college life or other matters. The student should consult with his adviser as soon as possible after the opening of the college year in order to outline his program of studies.

REGISTRATION

The freshman class assembles at the college on Monday before the opening of the academic year and spends Monday and Tuesday in becoming acquainted with the college, and in completing certain preliminary exercises.

Registration days are the first day of the academic year and the week preceding the examination period at the end of the first semester. Failure to register on or before these days involves a charge of \$1.00 for each day's delay up to a maximum of \$5.00.

A student's record of attendance begins with the first day of the semester. No credit for attendance is given until registration is completed. In cases of delayed registration unexcused absences are recorded for all scheduled meetings of courses unless excuses acceptable to the College Board are presented.

During the first week of any semester changes of courses may be made for sufficient reason with the written approval of the student's adviser and the instructors concerned. After the first week of any semester no changes may be made except such as are authorized by special vote of the College Board.

Freshmen may register for programs of either five or six courses in the first semester. In subsequent semesters programs of six courses are restricted to students whose average grade in all courses for the preceding semester has been C+ or better, except in the case of seniors. A senior whose graduation at the end of the year depends upon the completion of a program of six courses may register for such a program in either semester if his average grade for the preceding semester has been C— or better.

The election of a *major* and *minor* is required as part of registration at the beginning of a student's second year in college. This election when once recorded may be changed only with the approval of the Dean. Although the *major* and *minor* are not officially regarded as fixed until the student's second year in college, he should plan his course as definitely as possible from the beginning with his probable choice in view.

STUDENT PROGRAMS

The curriculum permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies includes two related subjects (a *major* and a *minor*) together with required courses in English and fine arts, and certain subjects chosen under regulations intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

The choice of *major* and *minor* usually involves specific requirements in other subjects. For these and for statements as to what particular courses may be used for a *major* and a *minor* the announcements of the different departments should be consulted.

Regular students normally carry programs of five courses in addition to the required work in physical training. In general it is expected that a course meeting three times weekly will require two hours of preparation for each lecture or recitation. Laboratory periods are usually three hours in length.

A student carrying the regular program should expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in physical training.

Candidates for the bachelor's degree in less than four years will generally carry programs of six courses and should expect to spend practically their entire time on their college work.

The subjects in which instruction is offered are grouped in three divisions:

DIVISION A

Biology, Chemistry, Experimental Psychology, Geology, Mathematics, Meteorology, Physics, Physiology.

DIVISION B

Economics, Education, Fine Arts, Geography, History, International Relations, Psychology, Sociology.

DIVISION C

Ancient Languages, English, German, Romance Languages.

First year students must make up their programs entirely from courses designated as "Open to Freshmen."

The program for the freshman year must include:

1. English 11.
2. A course in Foreign Language.

3. A course in Division A.
4. A course in Division B.
5. An elective. (Mathematics 110 or 111 for students intending to major in Division A.)

Second year students should, as a rule, complete the requirement in English, continue work in Foreign Language, and complete the requirements f and g listed under 3 below. A course in appreciation of the fine arts is a requirement for second year students unless they have completed this course with a satisfactory record in the first year. *Any first year requirements which have not been completed must be included in the program of courses for the second year.*

Undergraduates, other than freshmen, may enter any course listed "primarily for undergraduates," for which, in the judgment of the instructor in charge, they are prepared. Seniors and juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed "for graduate students and advanced undergraduates." Undergraduates are not admitted to courses "primarily for graduate students" except in rare cases, and then only by special vote of the College Board and the approval of the Secretary of the Graduate Board.

Regular gymnasium exercise is required of all students (unless excused by the College Board) for the general promotion of their health and mental efficiency. This work is scheduled at times which avoid conflict with recitation hours.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

Beginning September, 1934, all college regulations involving a quantitative statement of "credit" are expressed in terms of "courses" instead of "semester hours." Records in terms of semester hours made prior to September, 1934, will be interpreted in terms of courses on the basis of one "course" for six "semester hours".

Students who satisfy all of the following requirements will be recommended for the degree of Bachelor of Arts unless in the judgment of the College Board there is cause for withholding this recommendation.

1. Not less than three academic years of college study in residence. At least one full year and usually the last year before the degree is conferred must be spent at Clark University.

2. The completion of twenty "courses" (in addition to the re-

quired work in physical training) with satisfactory scholarship standing.

A "course" as a unit of credit implies, normally, three or four class meetings or laboratory exercises per week throughout the academic year, i.e., one-fifth of a student's normal program. Where departments offer fractional courses, these will be combined in reckoning a student's total credit in courses.

3. The following requirements in specified subjects and fields of study.

- a. A *major* of not less than four courses.
- b. A *minor* of not less than three courses.
- c. A requirement depending on the choice of the *major* subject, one course.

With a major in Division A, the requirement is Mathematics 110 or 111.

With a major in Division B, the requirement is either Greek, Latin, mathematics or a third year college course in a modern foreign language, subject to the approval of the department in which the *major* lies.

With a major in Division C, the requirement is Greek or Latin. This requirement is waived if two units of Greek or Latin have been presented for admission.

Work taken in fulfillment of this requirement (c) may also be counted toward the fulfillment of requirement (e) or (f).

- d. *English*, two courses, including English 11 required in the first year and an additional course required before the end of the third year.

"Fine Arts" and "Public Speaking" are not accepted in fulfillment of this requirement.

- e. *Foreign Language*, not more than five courses nor less than one course depending upon the amount of foreign language accepted for admission.

Each student must complete, *in college*, one course in a foreign language at a level not lower than the second year college course in that language.

Each student must complete, either in preparatory school or in college, the equivalent of five courses, including a course at the third year college level in some one language. No allowance is made for less than a single course in any one language.

In calculating equivalents under this requirement, the first two units of preparatory work in one language are accepted as the

equivalent of one course of college work and each additional unit in the same language is accepted as the equivalent of an additional course.

- f. *Division A*, two courses for students whose admission record included two or three units in the natural sciences. For students admitted with less than two units this requirement is three courses. For students admitted with four or more such units the requirement is reduced to one course.

This requirement, if more than one course, must be divided between at least two departments, and at least one course must be a laboratory course in biology, chemistry, geology, or physics.

Courses in the history of various sciences may not be used in fulfillment of this requirement.

- g. *Division B*, two courses for students whose admission record included two or three units of history or related subjects. For students admitted with less than two units in this field, the requirement is three courses. For students admitted with four or more units in this field, the requirement is reduced to one course.

This requirement, if more than one course, must be divided between at least two departments with not less than one full course in some one department.

- h. *Appreciation of the Fine Arts*, a half-course, required before the end of the second year.

4. *Physical Training*, three hours per week throughout three years. Any student may be excused from this requirement for adequate reasons.

GRADING AND SCHOLARSHIP

Beginning September 1935, the use of "ranks" (relative standing in each class) as the basis of a student's scholarship record was abandoned, in favor of the more usual grading system employing the symbols A, B, C, D, and F.

Courses with grades of D+, D or D— may be counted toward the A.B. degree only up to a maximum of one quarter of total credit required; i. e. not more than five (5) such courses, or their equivalent in fractional courses, may be counted. If some of the twenty courses required for the degree are not graded, then the maximum credit which may be counted with grades of D+, D or D— is limited to one quarter of the total credit from all courses in which grades are given.

CLASSIFICATION OF STUDENTS

Students are classified as freshmen, sophomores, juniors and seniors on the following basis:

A student who at the beginning of any academic year, has credit of less than two and one half courses is classified as a *freshman* for that year.

A student, who, at the beginning of any academic year, has credit of two and one half courses or more, but less than eight courses is classified as a *sophomore* for that year.

A student, who, at the beginning of any academic year, has credit of eight courses or more, but less than fourteen courses is classified as a *junior* for that year.

A student, who, at the beginning of any academic year, has credit of fourteen courses or more, is classified as a *senior* for that year.

A student who has announced his intention of becoming a candidate for the degree of Bachelor of Arts in three years and who, at the beginning of his third year has completed not less than two thirds of the twenty courses required for graduation is classified as a *senior* for that year.

Any student, who, at the beginning of the second semester, is clearly in a position to complete the requirements for the degree before the beginning of the next academic year, is classified as a *senior* for the second semester.

HONORS

First honors and *second honors* are awarded annually to those members of each class who have, in the judgment of the College Board, distinguished themselves by their scholarship during the year.

The bachelor's degree is awarded *with honor*, *with high honor*, and *with highest honor* to those members of each graduating class whose records warrant this distinction and who are not candidates for "departmental honors."

DEPARTMENTAL HONORS

Beginning with the class of 1936 a sophomore whose average standing for his first two years in college places him in the highest third of his class may become a candidate for an *honors* program in his major subject. Any student of this standing may file a formal application with his major department not later than the *first day of May* in his sophomore year. If the application is favorably en-

dorsed by the department concerned, it comes before the College Board for final action after the sophomore year has been completed. The action of the Board either admitting the applicant to an honors program, or refusing admission is reported in writing both to the applicant and to the department. A student who has satisfied the stated scholarship requirement at the end of his sophomore year, may, upon the recommendation of his major department and the approval of the College Board, be admitted to honors work as late as the end of the first semester of his junior year.

When an applicant has been provisionally accepted by a department for an honors program, he is assigned to a member of the department who acts as "honors adviser." The adviser has supervision of all matters pertaining to the honors program. A program for the student's junior and senior years is prepared in consultation with the adviser. This program may involve independent supervised study replacing work in regular classes to the equivalent of two full "courses". This program, after approval by the department, is filed with the Recorder at the beginning of the student's junior year.

Admission to candidacy for departmental honors does not relieve a student from any of the standing regulations of the college except as specifically here stated. A candidate for departmental honors will receive the degree of Bachelor of Arts "with honors in his major subject" if he completes the general requirements of the college and in addition thereto:

- (a) Maintains an average satisfactory to his major department.
- (b) Completes satisfactorily the program of regular course work and of independent supervised study referred to above.
- (c) Makes a satisfactory record in a comprehensive examination conducted by the department in the field of his major subject.
- (d) Is recommended for departmental honors by his major department and by the College Board.

The comprehensive examination requires not less than two nor more than three regular three-hour examination periods or their equivalent. At least three hours of this total is devoted to a written examination. The comprehensive examination, with the possible exception of laboratory tests, is given between the spring vacation and May 15 of the candidate's senior year. An honors candidate who has passed the comprehensive examination may, at the discretion of his major department, be excused from some or all of the final examinations *in the courses in his major subject*.

A student's candidacy for honors and all privileges connected with

it may be terminated by the College Board at the end of any semester upon the recommendation of his major department. In such an event the amount of credit to be allowed for extra-course work done by the student is determined by the College Board in consultation with the department.

SCHOLARSHIP SOCIETY

The Clark Scholarship Society was organized in 1914. This society is similar in aims to the Society of Phi Beta Kappa. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the Society." Membership in the Society is open to members of the faculty. New student members are elected at the end of the junior year from the men of high standing in the junior class. Nominations are made by the College Board and the undergraduate members of the Society elect from the men so nominated. Additional nominations are made at the middle and end of the senior year.

ELIGIBILITY FOR EXTRA-CURRICULAR ACTIVITIES

Participation in extra-curricular activities is denied only to those students whose scholarship records indicate that further encroachment upon their time and attention may interfere with the completion of their course of study.

A student is "eligible" for the following half semester if at the end of any half semester he is meeting either of the following conditions:

- (a) "Passed" in all courses and graded above D+ in at least one course.
- (b) "Passed" in all but one course, and graded above D+ in at least two courses.

Students carrying less than a full program of studies are ineligible, except in the case of seniors whose programs are adequate to insure their graduation at the end of the academic year.

Students admitted with advanced standing from another college are "ineligible" for the first half-semester of residence at Clark University except by special action of the College Board. Special students are "ineligible."

STUDENT LIFE

It has always been the policy of the University to give to its students the greatest possible individual liberty of action and to adopt few rules of conduct.

It is assumed that each student will conform to the recognized standards of morality, good order, and gentlemanly conduct, that he will not absent himself unnecessarily from university exercises at which he is due, and that he will give his serious and constant attention to his work as a student.

Undergraduate organizations are under such control as will insure proper caution and recognition of responsibility in business dealings.

The general supervision of intercollegiate athletics is committed to an Athletic Board consisting of the Director of Physical Training, the Committee on Athletics of the College Board, two alumni elected by the Alumni Association, and nine student members. The actions of this Athletic Board are subject to review and veto by the Committee on Athletics.

The non-athletic activities are supervised by the Student-Faculty Council.

Opportunity for relaxation and the meeting of students and faculty on a basis of general sociability is provided by the various clubs in which both students and faculty participate.

Student activities include a Glee Club and Orchestra which give a series of concerts in Worcester and elsewhere during the winter; a Debating Society whose members have made an enviable record for the University in intercollegiate debates; the Gryphon, a senior honor society, and other organizations.

The Clark University Players is an active student organization which presents a number of plays each year under the direction of the Department of English.

The Clark News, a weekly undergraduate publication, and the *Pasticcio*, the college annual, are published by the students.

THE GRADUATE DIVISION

GENERAL INFORMATION

Admission to the Graduate Division is open to properly qualified persons, both men and women.

Instruction and opportunities for original research leading to the degrees of Master of Arts and Doctor of Philosophy are offered by the following departments:

- *Biology
- Chemistry
- Economics and Sociology
- Geography
- History and International Relations
- Physics
- Psychology

The department of Education offers the degree of "Master of Arts in Education."

Other departments offer courses of an advanced nature which, with the consent of the Graduate Board, may be included in the programs of graduate students, but are not prepared at present to offer complete programs leading to the higher degrees.

The regular tuition for the academic year is \$200.

Opportunities will be provided for candidates wishing to secure the degree of Master of Arts in Education.

SCHOLARSHIPS AND FELLOWSHIPS

The University awards annually a number of scholarships yielding tuition and in some cases an additional stipend of not more than \$200, and fellowships yielding tuition and additional stipends up to a value of \$400. These stipends are provided from the income of the George F. Hoar Fund, the gift of Andrew Carnegie, and from other sources.

STUDENT AID

Student aid is available from the following funds, with the restrictions noted.

A CITIZEN'S FUND, the income of which is to be used for the aid of "some one or more worthy native born citizens of the City of

*In the department of Biology programs leading to the doctorate are limited to the field of Physiology.

Worcester who may desire to avail themselves of the advantages of the institution." The benefits of this fund are available to graduate students only.

THE JOHN WHITE FIELD FUND, the income of which is "to provide for the minor needs of a scholar or fellow," has been established by Mrs. Eliza W. Field. The fund amounts to five hundred dollars.

THE ELIZA D. DODGE FUND is a sum of one thousand dollars, the income only of which is to be expended to aid graduate students of limited means engaged in research work.

LOAN FUNDS

THE SARAH M. THURBER FUND. This fund has been established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Loans from this fund bear interest at the rate of 6 per cent per annum.

ALUMNI LOAN FUNDS. Loans from these funds are available on suitably endorsed notes. Applications require the approval of the student's major department, the Committee on Credentials of the Graduate Board, and the chairman of the Alumni Loan Fund Committee.

LIBRARY FACILITIES

In addition to the library facilities provided by the University students may avail themselves of the privileges of several other excellent libraries in the city. The Worcester Public Library contains some 237,000 volumes and makes accessible to the public about 600 newspapers and magazines. The library of the American Antiquarian Society, housed in the national headquarters of the society in Worcester, contains about 136,000 volumes and some 202,000 pamphlets. The library of the Worcester District Medical Society is also at the disposal of members of the University.

ADMISSION TO THE GRADUATE SCHOOL

Eligibility. Admission is granted only by the Graduate Board on recommendation of a department. A graduate of more than average ability from a college or university which was on the approved list of the Association of American Universities at the time his bachelor's degree was obtained is eligible for admission as a *regular graduate student*. A graduate of superior attainments from

a four-year college not on the list, is normally eligible for admission only as a *special graduate student* for a specified period, not exceeding one academic year. A special graduate student may be admitted by the Graduate Board to regular graduate standing after a semester, or its equivalent, of study in residence and upon the recommendation of his major department.

Application. A prospective applicant should communicate with the department in which he expects to do his major work. If he is encouraged to make application by the department, he will receive the application blanks for admission and should submit them to the Chairman of the department with an official transcript of undergraduate work, two letters of recommendation from persons in a position to speak frankly of his qualifications, and a recent photograph (passport size preferred). A photograph is not required of those who have had a personal interview with members of the staff. Any other pertinent information, including published or unpublished theses or other writings, may accompany the application. For most favorable consideration, applications for appointments for the succeeding year should be in the hands of the Chairman of the respective department by March 1st.

Admission. In granting admission, the Graduate Board may, with the advice of the department, prescribe a minimum period of residence never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School does not in any way imply admission to candidacy for a degree. Admission to the Graduate School is granted for entry only at the specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered as a regular student, his period of graduate study is broken by more than a year, he must make formal application for re-instatement.

Undergraduates and non-graduate special students in graduate courses. Admission of other than regular or special graduate students to a course "Primarily for Graduate Students" may be authorized by the Secretary of the Graduate Board on formal recommendation in each case by the department in which the course is offered.

SCHOLARSHIPS AND FELLOWSHIPS

GENERAL REGULATIONS

1. Scholarships and fellowships (except honorary appointments) are for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy in this University.

2. All applications for fellowships and scholarships shall be presented to the Chairman of the Credentials Committee accompanied by an official transcript of record, letters of recommendation, a photograph, and endorsed with the department's recommendation. Applications when complete and properly endorsed will be considered by the Committee on Credentials for recommendation to the Graduate Board. According to an agreement of the Association of American Universities, the elections of fellows and scholars will be communicated on April 1st, but not before, to each member of the Association of American Universities and to each successful candidate.

3. An appointment will become effective when an acceptance in writing is filed with the Secretary of the Graduate Board within fifteen days of the date of notification.

4. Scholarships or fellowships are not transferable from one department to another except with the approval of the Graduate Board.

5. A scholar or fellow may not engage during the term of appointment in any occupation that may interfere with his duties as a full-time graduate student unless he obtains permission from the Graduate Board to do so.

SCHOLARSHIPS

Scholarships may be awarded to students of high rank who may be expected to fulfill the requirements for the master's degree in the normal time. These scholarships are valued at from \$100 to \$400 including tuition.

FELLOWSHIPS

Fellowships valued at \$200 to \$400, which are equivalent to tuition alone or to tuition and an additional stipend up to \$200, may be awarded to competent, full-time, regular graduate students who have completed an amount of graduate work equivalent to the requirements for the M.A. degree. Fellowships valued at \$200 to \$500, equivalent to tuition alone or to tuition and an additional

stipend up to \$300, may be awarded to competent graduate students who give promise of completing their work for the degree of Doctor of Philosophy by the end of the academic year for which the appointments are made.

Some of these fellowships will be designated as *research fellowships or teaching fellowships*, with the consent of the applicant and on the recommendation of the department, in cases where research or teaching assistance in the department is to be a duty of the fellow. Where the research or teaching duties in such fellowship or in an assistantship would prevent a scholar or fellow from carrying a full program of studies during the academic year, he may nevertheless qualify for full-time credit for the year through an adequate summer program of research or reading directed by the major department and approved by the Graduate Board.

HONORARY FELLOWSHIPS

Distinguished visitors may be appointed Honorary Fellows for specified periods at the discretion of the Graduate Board. Such appointments entitle their holders to all university privileges and carry freedom from tuition charges.

RULES AND REGULATIONS

LANGUAGE REQUIREMENTS

Requirement in English. A student who wishes to become a candidate for a higher degree during his first year of residence may be required to come before the Committee on Language Examinations before admission to candidacy, for a test of the adequacy of his knowledge of English in respect to speaking, reading and writing.

A candidate for a graduate degree after more than one year of graduate study must satisfy his major department in respect to his knowledge of English.

Foreign Languages. A prospective candidate for the degree of Doctor of Philosophy is advised to prepare himself early for the oral examinations in reading modern languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these. A student must take these examinations not later than February first of his first year of residence at Clark beyond the master's degree. When he is ready for either or both he is to notify the Recorder, who will arrange for the examination to be held within two weeks if possible. These examinations are conducted by a committee composed of a

representative of one of the modern language departments, and a representative of the student's major department. The committee shall report the results of the examination to the Recorder. Additional language requirements may be imposed by the student's major department.

RESIDENCE

A regular year of full-time study or its specified equivalent in residence at Clark University is a prerequisite for any degree. Residence work is broadly defined as regular work at Clark University done under the immediate personal supervision of at least one member of the university faculty. A field trip led by a member of the university faculty who is regularly engaged in graduate instruction is considered as providing an opportunity for work in residence to a maximum extent of nine weeks.

Only the following are recognized as equivalents to a regular academic year:

For the degree of Master of Arts, one full semester of the regular academic year and the equivalent of 18 other weeks on a full-time program of graduate work approved by the major department;

For the degree of Doctor of Philosophy, a sufficient number of courses taken during the regular academic year, even if spread over a number of years.

THE DEGREE OF MASTER OF ARTS

Admission to Candidacy. Regular students who have been admitted to the Graduate School without condition, or others who have met any special requirements imposed by the Graduate Board, may, when they have demonstrated their ability to do satisfactory work, be accepted by the Graduate Board as candidates for the degree of Master of Arts. An application for admission to candidacy for the master's degree will be considered by the Graduate Board when the student has:

1. Completed one semester of full-time graduate work or its equivalent in residence at this university;
2. Paid the diploma fee (\$10) and publication fee (\$10), and
3. Obtained the written endorsement of his major department.

Applications should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for the

degree. Unless extended by action of the Graduate Board, candidacy for the degree of Master of Arts lapses at the end of three years. When candidacy expires without the degree having been awarded the diploma and publication fees, less any expenses incurred, will be returned.

Course requirements. In order to insure that the student may obtain the necessary training, he must meet a minimum course requirement of 18 semester hours in addition to his research work. The subject-distribution of the courses of each candidate must have the approval of the candidate's major department. A candidate for the master's degree who is definitely preparing to teach in secondary schools, may, with the approval of his major department, elect one or two semester courses in education which will count toward the fulfillment of this course requirement.

Examinations. The candidate must make a satisfactory record in such written examinations as may be required by the major department, and in a final oral examination of approximately one hour's duration by a committee of three or more, two of whom shall be members of the Graduate Board. The major department shall make a written report in duplicate, one copy to be delivered to the university Recorder and the other to the secretary of the Graduate Board, not later than 9 a. m. of the Friday preceding Commencement, stating the ground on which the candidate is recommended for the degree.

Thesis. The candidate must demonstrate that he has a comprehensive knowledge of his field of study and is capable of carrying on, under direction, a satisfactory investigation in that field. He must submit to his major department, by May 15 of the year in which the degree is to be conferred, a thesis on an approved topic and an abstract thereof. The thesis shall be in a prescribed form on prescribed thesis paper (to be obtained from the Bursar) and shall have a printed title page (to be obtained from the Recorder) that bears the following statement:

"A thesis submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Master of Arts in the Department of _____ and accepted on the recommendation of
(Name of chief instructor)"

The title page shall be followed by a page (to be obtained from the Recorder) giving the academic history of the candidate.

The abstract should not exceed 600 words in length and should bear the written statement,

"Abstract approved for publication

(Name of Chief Instructor)."

The thesis and two copies of the abstract, bearing the signature of the chief instructor, shall be delivered to the university Recorder not later than 9 a. m. of the Friday preceding Commencement.

Additional copies of the thesis or abstract may be required by the major department.

THE DEGREE OF DOCTOR OF PHILOSOPHY

Course of Study. Only such candidates as give evidence of general proficiency, power of investigation and high attainments in the special field in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

A graduate student who expects to proceed to the doctor's degree shall select a major subject of study, and at least one minor subject with the approval of the department in which the major subject lies.

Admission to Candidacy. Applications for admission to candidacy must be filed not later than November first, in any academic year, by students who hope to receive the degree at the end of that academic year.

An application for admission to candidacy for the degree of Doctor of Philosophy will be considered by the Graduate Board when the applicant has:

1. Completed two full academic years of graduate work or its equivalent;
2. Passed examinations in at least two foreign languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these;
3. Passed a preliminary examination in his major and minor fields of study;
4. Paid the diploma and publication fees (\$25 and \$15);
5. Filed with his major department an application for admission to candidacy, stating the subject of his dissertation, and
6. Obtained the endorsement of the application from his major department.

Admission to candidacy for the degree of Doctor of Philosophy shall hold good only for three years from the date of the vote granting admission to candidacy. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, will be returned.

Dissertation. For the degree of Doctor of Philosophy an indispensable requirement is a dissertation upon an approved subject, to which it must be an original contribution of value.

Not later than May 1, the dissertation, with an abstract not exceeding 1,200 words in length, must be presented to the instructor under whose direction it is written. The dissertation shall be in a prescribed form on prescribed thesis paper (to be obtained from the Bursar) and shall have a printed title page (to be obtained from the Recorder) that bears the following statement:

"A dissertation submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Doctor of Philosophy in the Department of——— and accepted on the recommendation of
(Name of Chief Instructor)."

The title page shall be followed by a page (to be obtained from the Recorder) giving the academic history of the candidate.

The abstract should bear the written statement:

"Abstract approved for publication

(Name of Chief Instructor)."

The dissertation and abstract must be accepted by the chief instructor before the final examination may be held. In every case the dissertation shall be laid before the examining committee at the time of examination, with the comments of the chief instructor and other readers.

The complete copy and two copies of the abstract of the dissertation, bearing the signature of the chief instructor, shall be delivered by the department to the university Recorder not later than 9 a. m. of the Friday preceding Commencement. The dissertation and one copy of the abstract will be deposited by the Recorder in the Library, where they shall remain permanently, not subject to withdrawal.

A second copy of the dissertation, accompanied by a copy of the abstract shall be delivered to the department or the library for loan purposes.

If and when a dissertation is published, five of the printed copies should be presented to the Clark University Library; four copies to be retained by the Library and the other to be presented to the Library of Congress for its annual list of American doctoral dissertations printed.

At the final examination the student will be expected to defend his dissertation and, at the discretion of the examining committee, he may be questioned over the entire field of his study. The final examination will be at least a two-hour oral examination. Addi-

tional written examinations may be given at the discretion of the department concerned. The oral examination will be held by a committee of at least four members, including the chairman or his duly appointed representative and one other representative of the department in which the candidate has done his major work, one or more representatives of the department or departments in which the candidate has elected his minor subjects, a member of the Graduate Board under whom the candidate has done no work, and such other members of the Graduate Board as care to attend.

The President of the University is authorized to invite any person from within or without the University to be present and to assist in the examination. The committee shall in each case appoint a clerk who shall report the results of the examination to the university Recorder.

Each department shall render to the university Recorder and to the Secretary of the Graduate Board final reports in writing on all candidates for the degree of Doctor of Philosophy not later than 9 a. m. of the Friday preceding Commencement.

THE GRADUATE SCHOOL OF GEOGRAPHY

STAFF

WALLACE W. ATWOOD, PH.D., Professor of Physical and Regional Geography and Director of the Graduate School of Geography.

*DOUGLAS C. RIDGLEY, PH.D., Professor of Geography in Education.

CLARENCE F. JONES, PH.D., Professor of Economic Geography.

W. ELMER EKBLAW, PH.D., Professor of Geography, Assistant Editor, *Economic Geography*.

SAMUEL VAN VALKENBURG, PH.D., Associate Professor of Climatology and Regional Geography.

WALLACE W. ATWOOD, JR., PH.D., Assistant Professor of Physiology and Regional Geography.

GUY H. BURNHAM, A.M., Cartographer.

GENERAL STATEMENT

The Graduate School of Geography gives opportunity to properly qualified students to secure advanced training in Geography. The staff is composed of specialists in the various fields of Geography. They must of necessity spend a portion of their time in travel and in field studies, but while in residence, they offer regular courses of instruction and direct advanced students in research work. It is not the intention to offer all courses of instruction each year; many of them are given once in two years. Abundant opportunities for instruction are provided, but graduate students are advised not to burden themselves by attending too many lecture courses. They must depend very largely for their growth upon their individual efforts in research, under the direction of members of the staff. The map collection and the Libraries offer them unusual facilities for research work in residence, but it is hoped that all graduate students, before completing their university work, may undertake field studies.

The publication of *Economic Geography*, issued quarterly, was begun in 1925.

In the Summer School each year many members of the geography staff offer both elementary and advanced courses. These are ac-

*Absent on leave, 1935-36.

ceptable for preparation for graduate work and for meeting the requirements for the degree of Master of Arts.

GEOGRAPHY COURSES FOR COLLEGE STUDENTS

Undergraduates planning to major in Geography or to go on into graduate work in Geography are urged to consult the Geography Staff early in their undergraduate course, so that suitable programs may be mapped out including essential courses in related fields. Students planning to major in Geography are required to take the following Geography and related courses:

Freshman year: Geog. 10, Physics 11 or Biology 11.

Sophomore year: Geog. 185a, 181b, Geol. 12, and Econs. 11 or Biology 14.

Junior year: Geog. 12a or 17a, and History 18.

Senior year: Geog. 26.

Students majoring in Geography may, by special permission, elect in their third and fourth years advanced courses in Geography.

Students minoring in Geography should take Geog. 10 as the first unit, Geog. 185a and 181b as the second unit, and Geog. 26 as the third unit; students minoring in Geography should take Geol. 12 in their second or third year.

GRADUATE WORK IN THE SCHOOL OF GEOGRAPHY

The Graduate School of Geography is open to any who wish to receive professional training in geography, and who are qualified to enter the Graduate Division of the University and take advanced work in geography. The undergraduate preparation for advanced work is indicated by the above college program.

Degrees of Master of Arts and of Doctor of Philosophy are conferred. For the Master's degree two years may be required for those whose preparation is considered to be insufficient to permit them to qualify in the minimum time.

The following courses in other departments should be of interest to students in Geography: Botany (Biol. 14); Economic History (Ec. 14); Economic Statistics (Ec. 16); International Trade and International Finance (Ec. 27a); International Economic Policies (Ec. 31); The Pacific and the Far East (Hist. 22); Latin America (Hist. 27).

All prospective candidates for graduate degrees in geography who are in residence will be expected to attend the field camp for three weeks each autumn, and during the year to take part in the seminar.

Formal course work in geography ends in midwinter on January 15, and in spring on May 1, leaving students free to read and to coördinate their work prior to the examination periods.

Candidates for the master's degree in Geography will be expected to pass written examinations and a general oral examination in the following fields: physiography, climatology, soils, plant geography, land utilization and agricultural geography, economic geography, human geography, regional geography, and geography in education.

Candidates for the doctor's degree in geography will be expected to pass more advanced written examinations, and a general oral examination including the broad foundation required for the master's degree and such more advanced studies as the candidate may have pursued in the fields of his particular interests. In general, a year of work beyond the master's degree should prepare a candidate for his general examination which is preliminary to his being accepted as a candidate for the Ph.D. degree and to his entering on concentrated work for his Ph.D. dissertation. This year of course work may well include, besides certain advanced courses in geography, related advanced studies in history and international relations, economics, or biology. The student is given much freedom of choice. By February 1 of the year prior to the final one for the doctorate a prospective candidate for the doctorate will be expected to show a reading knowledge of German and French.* These two foreign languages are the most important for American geographers.

STUDENTS' FEES

All geography students in residence must meet the camp fee, the workroom fee, and a classroom materials fee.

The camp fee covers board and lodging, transportation, maps, drafting supplies, and meteorological instruments from the time the party leaves Worcester to go to camp till it returns at the end of the three weeks' period. The fee is \$75, payable October 1 to the camp treasurer. The tuition fee for students participating in the field course only is \$25.

The workroom fee is assessed to help maintain the geography workroom and equipment used by graduate students. It applies to the alcove desk, files of maps, the card catalog, drafting tables and instruments. There are also adding and computing machines. The

*While German and French will normally be the two languages required, an exception might be made in a case where the dissertation for the doctorate demands a comprehensive knowledge of Spanish.

workroom fee is \$5.00 a semester, payable November 1 and March 1, to the departmental stenographer.

The classroom materials fee is for mimeographed outlines, abstracts, summaries, chapters of theses in the various courses and in the seminar and for the maintenance in part of the classroom wall-maps and other equipment, and for the small expense of balloons and hydrogen and of some meteorological instruments. The classroom materials fee is \$5.00 each semester, payable November 1 and March 1, to the departmental stenographer.

COURSES IN GEOGRAPHY

1. PRIMARILY FOR UNDERGRADUATES

10a. The Significance of Geographic Environment. An introduction to the principles of geography.

Half course, first semester. M. W. F., 10.

MR. ATWOOD, JR.

10b. Principles of Geography.

Open to Freshmen.

Half course, second semester. M. W. F., 10.

MR. VAN VALKENBURG

[**100a. Conservation of Natural Resources.** MR. RIDGLEY]

[**119. Geography in Junior High School Education.**

MR. RIDGLEY]

181b. Geography of North America.

Open to Freshmen.

Half course, second semester. M. W. F., 9. MR. ATWOOD, JR.

185a. Geography of Europe.

Half course, first semester. M. W. F., 11.

MR. VAN VALKENBURG

Geology 12. General Geology.

MR. LITTLE

[**12a. Weather and Climate.**

Half course, first semester. M. W. F., 9.

MR. VAN VALKENBURG]

[**12b. The World Climates.**

Half course, second semester. M. W. F., 9.

MR. VAN VALKENBURG]

Biology 14. General Botany.

MR. POTTER

17a. Geography of Worcester and Vicinity. A field and laboratory course. Prerequisites, Geography 10a and 10b and Geology 12, or equivalent.

Half course, first semester.

MR. ATWOOD, JR.

17b. Geographic Problems. Prerequisites, Geography 10a and Geology 12.

Half course, second semester

MR. ATWOOD, JR.

[18b. Regional Physiography of North America. Prerequisite, Geology 12, or 9 hours of geography.

Half course, second semester.

MR. ATWOOD, JR.

Geology 121a. Mineralogy.

MR. LITTLE

Geology 122b. Economic Geology.

MR. LITTLE

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

26. Economic Geography. Prerequisites, Geography 10a, 10b, 12a, 12b, and Geology 12.

Three hours weekly, through the year. Tu. Th. S., 9. MR. JONES

[201b. Geography of Asia.

Two hours weekly, second semester. Tu. Th., 2.

MR. VAN VALKENBURG]

202b. Political Geography.

MR. VAN VALKENBURG

Two hours, second semester. M. W., 11. MR. VAN VALKENBURG

[290a. Cartography and Graphics.

One hour weekly, first semester.

PRESIDENT ATWOOD AND MR. BURNHAM]

[29b. Geography in Education. Prerequisites, Geography 10a and other geography courses totaling at least 12 hours.

MR. RIDGLEY]

3. EXCLUSIVELY FOR GRADUATE STUDENTS

30. Seminar.

Weekly, Th. 3:30.

STAFF

31. Regional Physiography of North America. Prerequisite, Geology 12, or equivalent in physiography.

Two hours of lectures and two hours of laboratory weekly, through the year. Tu. Th., 11. PRESIDENT ATWOOD AND MR. ATWOOD, JR.

32. Regional Climatology. Prerequisite, Geography 12, a and b or equivalent.

Two hours, through the year. Tu. Th., 10.

MR. VAN VALKENBURG

[33b. Soil Geography.

Daily, for one month.

MR. EKBLAW

34a. Plant Geography.

Two hours, first semester. M. W., 9.

MR. EKBLAW

[35b. Land Utilization and Agricultural Geography.

Two hours, second semester. M. W., 2.

MR. EKBLAW

310. Research in Regional Physiography. PRESIDENT ATWOOD

320. Research in Climatology. MR. VAN VALKENBURG

330. Research in Soils. MR. EKBLAW

340. Research in Plant Geography. MR. EKBLAW

341b. Plant Regions of the World. Prerequisite, Geography 34a.

Two hours, second semester. M. W., 10. MR. EKBLAW]

350. Research in Agricultural Geography or Land Utilization.
MR. EKBLAW

[36b. Industrial Geography. Prerequisites, Geography 26a and 21a or 22a.

Two hours, second semester. M. W., 2. MR. JONES]

360. Research in Industrial or Commercial Geography.
MR. JONES

362b. Geographic Aspects of United States Foreign Trade.

Two hours, second semester. M. W., 9. MR. JONES

37a. General Principles of Human Geography. Prerequisites, 9 hours of geography or history and permission of the instructor.

Three hours, first semester. M. Tu. W., 2. MR. EKBLAW

370. Research in Human Geography. MR. EKBLAW

375a and b. Geography of Europe.

MR. VAN VALKENBURG

Two hours, through the year. M. W., 10, first semester.

M. W., 2, second semester. MR. EKBLAW

380. Research in Regional Geography.

One or more members of the Staff

[383b. Caribbean America.

Two hours, second semester. Tu. Th., 10. MR. JONES]

384a. South America.

Three hours, first semester. Tu. Th. S., 11. MR. JONES

History 22. The Pacific and the Far East.

Three hours, through the year. M. W. F., 10. MR. BLAKESLEE

394a. Field Methods and Studies. Three weeks at the opening of the school year. Connecticut Valley, 1925 to 1930 inclusive; Cape Cod, 1931; Connecticut Valley, 1932 and 1933; Blackstone Valley; 1935.

Required each year of all candidates for graduate degrees in geography.

In 1934-1935 this course was replaced by:

[394a. Three Months in the Field. A comprehensive field study of several selected areas of particular geographic interest in eastern United States.

One semester of residence credit.

PROFESSORS ATWOOD, JONES, EKBLAW
VAN VALKENBURG AND ATWOOD, JR.]

THE SUMMER SCHOOL

OFFICERS OF INSTRUCTION AND ADMINISTRATION

WALLACE WALTER ATWOOD, PH.D. President of Clark University and Director of the Graduate School of Geography.	Geography
ROBERT S. ILLINGWORTH, A.M., ED.M. Director of the Summer School and Associate Professor of English, Clark University.	English
CLARENCE F. JONES, PH.D. Professor of Economic Geography, Clark University.	Geography
W. ELMER EKBLAW, PH.D. Professor of Geography, Clark University	Geography
GUY H. BURNHAM, A.M. Cartographer, Clark University.	Cartography
DWIGHT E. LEE, PH.D. Associate Professor of Modern European History, Clark University.	History
RAY ALLEN BILLINGTON, PH.D. Assistant Professor of History, Clark University.	History
SAMUEL J. BRANDENBURG, PH.D. Professor of Economics and Sociology, Clark University.	Economics
LOUIS BALSAM Kingsley Davis, PH.D. Assistant Professor of Sociology, Clark University.	Sociology
VERNON JONES, PH.D. Associate Professor of Educational Psychology, Clark University.	Education
LYDIA P. COLBY	Recorder
FLORENCE CHANDLER	Bursar

The session of 1936 will begin July 6 and end August 14.

Instruction will be offered in geography, history, education, economics and sociology, and English.

Qualified students are admitted upon presentation of proper credentials. Both undergraduate and graduate work is offered.

Work done in the Summer School may be counted, subject to the regulations of the College and the Graduate School and of the Faculty of the University, toward fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Education, and Master of Arts. Unless otherwise announced, each course is intended to be the equivalent of a course meeting two hours per week throughout a semester and is credited, when accepted toward the fulfillment of the requirements for a bachelor's degree in this University, for two semester hours.

The tuition charges are twenty dollars for a single course meeting five times a week, thirty-five dollars for two or three courses, and forty-five dollars for four courses. Rooms in the vicinity of the University cost from three dollars a week up, and board may be obtained at a reasonable rate.

The Summer School Bulletin, published about February 1, contains detailed information about the coming session with descriptions of the various courses, and may be had upon application to the Director of the Summer School, Clark University, Worcester, Mass.

The names of the students who attended the Summer School in 1935 will be found in the Register at the end of this catalogue.

LIST OF COURSES

The starred courses (*) are those definitely intended, by the instructor concerned, for students who are candidates for the degree of Master of Arts or of Master of Arts in Education in Clark University, but the courses are not restricted to such students.

GEOGRAPHY

SS14.	Economic Geography.	DR. C. F. JONES
*SS24.	South America.	DR. C. F. JONES
SS29.	Geographic Influence in American History.	DR. C. F. JONES
SS27.	Human Geography.	DR. EKBLAW
*SS34.	Plant Geography.	DR. EKBLAW
SS392.	Mapping and intensive field study of a small community.	DR. EKBLAW
SS191.	Graphics and Cartography.	MR. BURNHAM
SS190.	Mathematical Geography.	MR. BURNHAM

- *SS340. Research in Economic Geography or Regional Geography.
DR. EKBLAW
- *SS370. Research in Human Geography or Plant Geography.
DR. EKBLAW

HISTORY

- | | | |
|---------|--|----------------|
| SS111. | History of Europe since 1830. | DR. LEE |
| *SS22. | European International Relations 1870-1919. | DR. LEE |
| SS101. | American History since 1850. | DR. BILLINGTON |
| SS20. | Social and Intellectual History of the United States, 1825-1900. | DR. BILLINGTON |
| *SS354. | Research in the History and International Relations of Europe. | DR. LEE |
| *SS355. | Research in the History of the United States. | DR. BILLINGTON |

ECONOMICS AND SOCIOLOGY

- | | | |
|--------|---|--------------------------------|
| SS2. | Problems of Economics. | DR. BRANDENBURG |
| *SS4. | Economic History of the United States. | DR. BRANDENBURG |
| *SS28. | Sociological Problems in Education. | DR. BALSAM
Davis |
| *SS21. | The Family and Marriage. | DR. BALSAM
Davis |
| *SS32. | Research in Selected Economic Problems. | DR. BRANDENBURG |
| *SS30. | Research in Selected Sociological Problems. | DR. BALSAM
Davis |

ENGLISH

- | | | |
|---------|---|-----------------------|
| SS5. | Stagecraft. | PROFESSOR ILLINGWORTH |
| SS113. | British Drama. | PROFESSOR ILLINGWORTH |
| *SS244. | The Teaching of English: the Interpretation and Appreciation of Literature. | PROFESSOR ILLINGWORTH |

EDUCATION

- | | |
|---|------------------|
| *SS308. Principles of Education. | DR. VERNON JONES |
| *SS20. Education for Character and Citizenship. | DR. VERNON JONES |

FIELD TRIP FOLLOWING THE SUMMER SCHOOL

- SS202. Caribbean Field Trip. DR. C. F. JONES

THE DEGREE OF BACHELOR OF EDUCATION

The degree of Bachelor of Education is offered to teachers, both men and women, who have completed a two-year normal school course, or its equivalent, and who have had at least one year of experience in teaching. Candidates for this degree are under the direction of the Committee on Extension Courses and Special Students.

The degree is awarded on the satisfactory completion of a program of studies aggregating slightly more than the equivalent of two years of regular college work, in addition to the normal school course. Candidates for the degree may earn the necessary credit in summer school, in extension courses ("Courses of College Grade for Adults"), and in regular college courses. A minimum of thirty (30) semester hours must be earned in residence at Clark University. All or part of the balance may be earned elsewhere, *subject to approval in advance by the Committee on Extension Courses and Special Students or its representative*. A series of courses designated as "COURSES OF COLLEGE GRADE FOR ADULTS" is offered each semester at the University to meet the needs of candidates for the degree of Bachelor of Education. Study outside of regular classes conducted under the auspices of a recognized institution of college grade cannot be accepted for "credit", though such study may be the basis of relief from requirements in particular subjects.

A teacher in active service may normally earn a maximum of four semester hours of credit in each semester of the academic year and six* hours in a six-week summer school. At this rate, the degree can be secured in five calendar years after the completion of the normal school course. Men who are candidates for the degree and who can devote themselves to full-time study will usually find it possible to enroll in regular college classes for a program yielding fifteen semester hours of credit each semester. *Women are not admitted to college classes at Clark University and will usually not find it possible to secure a full-time program of courses during the regular academic year.*

The program leading to the degree includes requirements in English, foreign language, laboratory science, social science and education.

*Full credit will not be given when a student enters a summer school after the first week of the session nor when changes of program are made after the first week of the session.

RULES AND REGULATIONS

The more important rules affecting candidates for the degree of Bachelor of Education are stated below.

It is impossible to cover explicitly, by rule, all situations which may arise in the absence of a fixed curriculum and with the possibility that credit toward the degree may be obtained from a variety of sources. The committee is guided by the general purpose to maintain a reasonable standard, involving suitable choice of courses and satisfactory performance in them.

1. ADMISSION. Only those who have completed a two-year normal school course or the equivalent may be admitted to candidacy for the degree of Bachelor of Education.

An application for admission to candidacy will be considered only when it is made in writing on a form which may be obtained from the University Recorder. An application should be accompanied by evidence of graduation from a standard high school and an *official* record of all study by the applicant in normal school and college.

Applicants are notified in writing of action on their applications. Such notice in the case of those accepted includes a statement of "credit" allowed on records submitted and of any special requirements.

2. "CREDIT" FROM OTHER INSTITUTIONS.

- a. Credit of 54 semester hours will normally be given for the completion of a standard two-year course in a normal school or teachers college. Less than this may be granted at the discretion of the committee.
- b. After admission to candidacy, credit will be allowed for work done at other universities, colleges, or normal schools *subject to approval in advance*.
- c. Not more than thirty semester hours credit may be allowed for home study or extension courses. Such work is accepted only from a limited number of sources. Candidates who undertake such work without approval in advance run the risk of not having it recognized for "credit."

3. REQUIREMENTS FOR THE DEGREE.

- a. 120 semester hours of college credit, including advanced standing granted at the time of admission to candidacy.
- b. At least 30 semester hours of credit earned *in residence* at Clark University. (Included in the total of 120 semester hours)

- c. At least 15 semester hours of credit earned after admission to candidacy. (Included in the total of 120 semester hours)
- d. At least one year's teaching experience.
- e. Requirements in particular subjects:
 - (1) Six semester hours in psychology or education, taken after the completion of the two-year normal school course or its equivalent
 - (2) Six semester hours of laboratory science, taken after the completion of the two-year normal school course or its equivalent.
 - (3) Ten semester hours of English, which may be taken in whole or in part in the normal school course.
 - (4) Ten semester hours of foreign language, which may be taken in whole or in part in the normal school course.*
 - (5) Twelve semester hours of economics, geography, government, history, or sociology, at least six of which must be taken after the completion of the two-year normal school course or its equivalent.

4. **STANDARD OF SCHOLARSHIP.** The same standard of scholarship will be required of candidates for this degree as for the degree of Bachelor of Arts. Specifically, this requires a grade better than D+ in three-fourths of all credit accepted toward the completion of the requirements for the degree, and a grade better than C— for credit in courses taken in summer school.

5. **LAPSE OF CANDIDACY.** Candidacy for the degree terminates automatically whenever for a period of two years or more a candidate has failed to complete any courses in Clark University yielding credit toward the degree. A candidacy terminated under this rule may be renewed by action of the committee. Such renewal may involve a revision of allowances previously made both in respect to total credit and requirements in particular subjects.

6. **DIPLOMA FEE.** The diploma fee (\$5.00) should be paid to the Bursar not later than the beginning of the semester or summer session in which the requirements for the degree will be completed.

*The passing of a course or courses which would normally complete credit for ten or more semester hours if the study of the language were begun in college is usually accepted in satisfaction of this requirement. The "credit" granted in such cases is that actually earned in courses taken.

CLARK UNIVERSITY

BULLETIN

No. 120

MAY, 1935

COURSES OF COLLEGE GRADE FOR ADULTS

**Open to High School Graduates
of Both Sexes**

TO BE OFFERED IN THE
FIRST SEMESTER
1935-36

COURSES MEET ONCE A WEEK
LATE AFTERNOON AND SATURDAY MORNING

ployment or those who cannot at present attend a college at a distance.

Date of Opening

Classes will meet for organization and the beginning of work during the week Sept. 30-October 1, 1935, on the day specified in the description of each course.

Attendance at the first meeting and presence at all classes are highly desirable.

Registration and Charges

Registration involves the filling out of an enrollment card and payment of the fee. Students are not enrolled until the *enrollment card and tuition* for each course have been received by the Bursar. Those who desire to avoid the delay involved in making payments at the office of the Bursar may enroll by mail.

Tuition charges are \$8.00 for a course meeting one hour a week for one semester, and \$15.00 for a course meeting two hours a week for one semester.

The matriculation fee of \$5.00 is a charge for the opening of an official record in the office of the university Recorder. Matriculated students receive official certificates on which credit toward a degree may be granted at Clark University or elsewhere, subject to the standing regulations of the institution to which they may be presented.

Class lists for all courses will be closed September 19, 1935, and all fees are payable by noon of that date. Enrollment after that date will be possible only in special cases, with the consent of the Recorder.

A late registration fee of one dollar for each week of delay, or fraction thereof, will be charged in all cases when the fee is paid after the above date.

Inquiries, applications, and registrations may be attended to by mail, to the convenience of those concerned.

Standards, Credit, Terms of Admission

Only courses of college grade will be given, but students without the conventional preparatory training may be admitted to any course at the discretion of the instructor.

Courses will meet for periods of 50 to 100 minutes.

The usual hours for afternoon courses running for 100 minutes will be from 4:20 to 6:00; those for Saturday and evening courses will be determined by the individual instructors.

Credit. When accepted for credit toward a degree of Bachelor of Education in this University, one semester hour will normally be granted for a one-hour course (50 minutes) meeting 16 times, and two semester hours for a two-hour course (100 minutes) meeting 16 times.

Regular outside preparation or collateral reading is expected in every course, except in the case of "auditors." This outside work will be equal in amount to the preparation expected in regular undergraduate courses, namely an average of two hours per week for each semester of credit in the course. Those who prefer to attend without doing any outside work are welcome, but will be classed as "auditors."

In view of the outside work required it is obviously unwise for students who are otherwise busy to attempt many of these courses at the same time. By vote of the committee in charge of this work, persons who are in any full-time employment will not hereafter be permitted to register at any one time for courses carrying more than four semester hours credit.

The Degree of Bachelor of Education

This degree is offered to teachers with at least one year's full-time teaching experience. Admission to candidacy for the degree is based on a satisfactory academic record showing the completion of a regular two-year Normal School course or its equivalent. The courses described in this circular may be used toward the completion of the requirements for this degree.

It is important to note that acceptance for enrollment in these courses carries no implication whatever in respect to candidacy for the degree. Those who intend to become candidates should file a formal application at the earliest possible date. A total credit equal approximately to one quarter of the entire amount normally required must be completed *after admission to candidacy* before the degree will be conferred. .

Detailed information and blank forms for application for admission to candidacy may be obtained from the Recorder.

FOR FURTHER INFORMATION ADDRESS

LYDIA P. COLBY, Recorder

LIST OF COURSES

NOTE: Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at the discretion of the instructor in charge.

Biology

1. **BOTANY.** The first semester will be devoted to a study of type specimens of the slime moulds, bacteria, blue green algae, the true algae, fungi, mosses, ferns and club mosses.

The second semester will introduce the student to the fundamentals of Systematic Botany. Methods of collecting, pressing and mounting will be taught, together with practice in the use of keys for the purpose of identification and classification of plants. It is hoped that at least four field trips will be taken in the spring.

A laboratory fee of \$1.00 per semester is charged for this course.

Two Semester Hours

Tuesdays, 4:20-6:00

MR. POTTER

Room 206

2. **THE BIOLOGY OF ANIMALS.** This course aims to furnish a basis for the interpretation of life as it appears in the animal world, including man. The study of a series of forms of increasing complexity develops a conception of what an animal is and how animals have solved the problem of existence in changing surroundings. Structures and activities are considered in relation to each other to the animal as a whole. The emphasis during the first semester will be placed on the

backboned animals. The second semester will be devoted to the study of invertebrates. Lectures, demonstrations and occasional field trips.

A laboratory fee of \$1.00 per semester is charged for this course.

Two Semester Hours

Tuesdays, 4:20-6:00

C. M. POMEROY

Room 206

Economics and Sociology

CONTEMPORARY SOCIAL PROBLEMS. This course considers important problems of recent or current interest and seeks to understand them in the light of sound social policy; particular attention is given to issues arising out of the New Deal. Monetary and banking issues, unemployment and relief programs, local and national taxation, trade reciprocity and tariffs, farm relief, wage and price fixing, labor organizations and company union trade associations, codes, etc., are typical of topics studied. In so far as practicable, however, the choice of topics will be determined by the interests and desires of those electing the course. The work is planned to meet the needs of teachers of any of the social sciences, but it should be illuminating to all thoughtful persons who have an intelligent interest in our economic and social life. Lectures, required readings, discussions.

Two Semester Hours

Thursdays, 4:20-6:00

MR. BRANDENBURG

Room 217

Education

EDUCATIONAL GUIDANCE. The course will consider the problems of educational guidance in the school, home, and community; the adjustment of the pupil by means of self-guidance, through school activities and influences outside the school. The aim of the course is to gain that understanding of children which will enable the educator to teach teaching problems in terms of physical, mental, moral, and social needs and interest of the pupil.

Semester Hours

5 days, 4:20-6:00

MR. ILLINGWORTH

m 102

English

ENGLAND GOES TO THE PLAY. A survey of the development of the English theatre beginning with the quaint and vivid little dramas which were called mysteries, miracles and moralities. Then, in order, pre-Shakespearean plays, plays by Shakespeare's distinguished contemporaries, Restoration Comedy, Sheridan and Goldsmith, and finally the resplendent modern era that culminates in Ibsen, Shaw and Galsworthy. There will be occasional lectures on the other literary forms that flourished in each of these dramatic periods and on the related lectures on what English painting was accomplishing contemporaneously.

The course is open either to those who wish to attend the lectures or those who wish to do the assigned reading for credit.

Semester Hours

5 days, 10:00-11:40

MR. DODD

n 119

French

1. ELEMENTARY COURSE. A general introduction to the language for beginners and for those who wish to renew their acquaintance with French. Pronunciation and French-to-English translation will receive particular attention; reading textbooks will be selected which best serve to initiate the student to French life and culture. Fraser, Squair, and Carnahan, *Brief French Grammar* will be used through the year as the basic language textbook.

If any beginners in the course should feel handicapped by the presence of others who have studied French before, extra instruction will be given them upon request, without charge.

Two Semester Hours

Mondays, 4:20-6:00

MR. DOUGHERTY

Room 218

2. SECOND YEAR COURSE. Review of the elements, continuation of rapid reading and further work in writing and speaking. Pronunciation continued on a phonetic basis. This course is open to those who have taken the course for beginners and to others who have secured a knowledge of elementary French by the equivalent of two years' work in the high school. As a new text will be used, it will be possible for all to make a new start in oral and phonetic work, and to renew rapidly their acquaintance with the fundamentals before proceeding with material that is on a strictly second-year level. The reading will use both

the more conventional translation technique and the newer "silent reading" processes.

Two Semester Hours

Mondays, 4:20-6:00

MR. CHURCHMAN

Room 104

3. ADVANCED COURSE: PRACTICAL FRENCH. The main purpose of this course is the development of facility in the use of the spoken and written language. Although as far as possible French will be the language of the classroom, it is not assumed that the student has already acquired facility. This will come with practice, and those students who have studied French for two years could consider themselves satisfactorily prepared. Advanced French, when the content is changed, may be repeated once with full credit, but not more than once.

Two Semester Hours

Tuesdays, 4:20-6:00

MR. LELAND L. ATWOOD

Room 104

4. SEMINAR. The Contemporary French novel, and papers, usually in French, by members of the class and invited guests, on current topics of interest in French literature and civilization.

Open to the general public without fee or credit. Open also for credit to those who have had a preparation similar to that given in course 3 and do not pay the regular fee. May be taken for credit indefinitely, as the content is continually changing.

One Semester Hour

Wednesdays, 5:10-6:00

MR. LARUE

Room 104

5. SUPPLEMENTARY COMPOSITION AND OR WORK. Designed especially to aid credit students in the Seminar in the preparation and criticism of papers there presented, but open to other interested and qualified persons. In addition to the preparation of papers, there will be a systematic study of pronunciation and phonetics and of special points in syntax (cf. Armstrong's *Syntax of the French Verb*, Holbrook's *Living French*, Fraser and Squair's *Complete French Grammar*).

One Semester Hour

Wednesdays, 4:20-5:10

MR. LARSEN

Room 104

Geography

1. CARIBBEAN AMERICA. A lecture course covering the geography of Mexico, the Central American states, and the islands bordering the Caribbean; the historical background of the islands of the Caribbean and the republics of the mainland; the major geographic regions of the different countries; the commercial products of the republics and islands; the expansion of the United States into the Caribbean; the evolution of the regions of Caribbean America since the Spanish-American War; the commercial importance of the various republics and islands as a market for manufactured wares, and as a source of foodstuffs and raw materials. A number of lectures will be illustrated with slides.

Two Semester Hours

Tuesdays, 4:20-6:00

MR. C. F. JONES

Room 120

2. **POLITICAL GEOGRAPHY.** A geographical interpretation of the political problems of the world today; valuable for an understanding of the background of current events and of direct use in teaching geography and modern history.

Two Semester Hours

Tuesdays, 4:20-6:00

MR. VAN VALKENBURG

Room 120

3. **LANDS AND PEOPLES.** A cultural and inspirational presentation of the part that the lands of the world have played in the evolution of peoples and the history of nations. The lectures, in part illustrated, will include the interpretation of the social, economic, and political conditions of ancient and modern nations in terms of their land, character, occupancy, and utilization.

Two Semester Hours

Wednesdays, 4:20-6:00

MR. EKBLAW

Room 120

German

1. **ELEMENTARY GERMAN.** (To be offered in 36-37). This course is designed to give practical training in German to persons with little or no previous experience in the language. It makes careful study of the grammatical fundamentals and the close relationship between English and German, and uses the spoken word freely for the acquisition of a limited active vocabulary. Reading of easy prose and poetry.

MR. BOSSHARD

2. **INTERMEDIATE COURSE.** This course offers oral and written composition, stressing the fluent

use of modern German. The reading material includes prose selections, poems, and songs. Some of the poems and songs will be interpreted with the aid of records of prominent actors and singers. The course is a continuation of "Elementary German"; students inadequately prepared will receive special help in the beginning of the course.

Two Semester Hours

Thursday, 4:20-6:00

MR. BOSSHA

Room 106

3. INTRODUCTION TO GERMAN LITERATURE. (To be offered in 1936-37). Third year course. Extensive conversation and composition in conjunction with the reading of an introductory book like Fleissner's *Deutsches Literaturlesebuch* during the first semester, to be followed in the second semester by the reading of select works of Goethe and Schiller. New students may enter in the second semester.

MR. JAN

4. GERMAN CULTURE. An illustrated lecture course aiming to sketch the development of German civilization, its history, folk-lore, art, music and literature from the early Middle Ages to the present day. Guest speakers will be invited from time to time to discuss various phases of the subject. The facilities of the Worcester Art Museum: books, slides, other illustrative material, phonograph recordings, probably also leading German films, will be available. The lectures will therefore be held at the museum and not at Clark. This course may be taken either as an elective

no language prerequisite and all collateral
ing in English, or as an advanced language
literature course with most of the reading in
nan confirmed by comprehensive written re-
s.

Semester Hours

days, 4:20-6:00 (*tentatively*) MR. JANTZ
ire Hall, Worcester Art Museum

Greek

GREEK TRAGEDY IN ENGLISH. Aeschylus, Soph-
and Euripides. This course will deal with
general subject of Greek tragedy,—its origin
gradual development, its social, religious, and
al background, the preparation and staging
e plays. Selected plays of the three great
artists will be assigned for reading. The method
e course will include lectures, discussions, and
sible some dramatic readings by selected mem-
of the class. It is hoped that the course would
value for teachers of English, history, and
modern literature.

Semester Hours

esdays, 4:20-6:00 MR. BRACKETT

115

STAFF

D L. ATWOOD—Head of Department of Mod-
n Languages, Worcester Polytechnic Insti-
te.

BOSSHARD—Associate Professor of German.

BRACKETT—Professor of Greek and Latin.

BRANDENBURG—Professor of Economics and
ciology.

CHURCHMAN—Professor of Romance Lan-
ages.

L. H. DODD—Professor of Rhetoric.
 D. M. DOUGHERTY—Assistant Professor of Romance Languages.
 W. ELMER EKBLAW—Professor of Geography.
 R. S. ILLINGWORTH—Associate Professor of English.
 H. S. JANTZ—Assistant Professor of German.
 C. F. JONES—Professor of Geography.
 E. O. LARUE—Formerly Professor in Assumption College.
 C. M. POMERAT—Instructor in Biology.
 DAVID POTTER—Associate Professor of Biology.
 S. J. VAN VALKENBURG—Professor of Geography.

FACULTY COMMITTEE IN CHARGE

H. M. BOSSHARD
 VERNON JONES
 H. P. LITTLE
 C. E. MELVILLE
 P. H. CHURCHMAN, Chairman

Courses for Graduate Students in Education

Attention of students interested in doing graduate work in Education is called to the following courses in the University meeting late afternoon and Saturdays:

Ed. 15b. Individual Differences and Exceptional Children. Second semester. S., 11-1.

Mr. Vernon Jones

Ed. 19a. Psychology of Character. First semester. S., 11-1.

Mr. Vernon Jones

Ed. 101a. The Teaching of Modern Languages. First semester. W., 4:20-6.

Mr. Churchman

Ed. 313a. Adv. Educational Psychology and Statistical Method. First semester. Tu., 4:20-6.

Mr. Vernon Jones

Ed. 314b. Adv. Educational Psychology and Tests and Measurements. Second semester. Tu., 4:20-6.

Mr. Vernon Jones

For a complete list of courses in Education at the graduate level, send for special bulletin on that subject.

CLARK UNIVERSITY BULLETIN

124

DECEMBER, 1935

COURSES OF COLLEGE GRADE FOR ADULTS

Open to High School Graduates
of Both Sexes

TO BE OFFERED IN THE

~~FIRST SEMESTER~~

1935-36

SECOND SEMESTER

COURSES MEET ONCE A WEEK
AFTERNOON AND SATURDAY MORNING

PROGRAM OF COURSES

MONDAY

4:20-6:00	ELEMENTARY FRENCH. Dougherty
4:20-6:00	SECOND YEAR FRENCH. Churchm
4:20-6:00	ANTHROPO-GEOGRAPHY. Ekblaw
4:20-6:00	MODERN SOCIOLOGICAL PROBLEMS (N Series). Balsam

TUESDAY

4:20-6:00	BIOLOGY OF ANIMALS. Pomerat
4:20-6:00	VOCATIONAL GUIDANCE. Illingw
4:20-6:00	PRACTICAL FRENCH. L. L. Atwo
4:20-6:00	CARIBBEAN AMERICA. C. F. Jones
4:20-6:00	GERMAN CULTURE. Jantz
4:20-6:00	SOCIAL PSYCHOLOGY. Willoughby

WEDNESDAY

4:20-5:10	FRENCH COMPOSITION AND ORAL W LaRue
5:10-6:00	FRENCH SEMINAR. LaRue
4:20-6:00	POLITICAL GEOGRAPHY. Van Va burg
4:20-6:00	INTERMEDIATE GERMAN. Bossha

THURSDAY

4:20-6:00	BOTANY. Potter
4:20-6:00	POST-WAR EUROPE. Lee

SATURDAY

10:00-11:40	THE SHORT STORY IN ENGLISH OTHER TONGUES. Dodd
-------------	---

The Bulletin is published in January, February, M
April, May, June, October, November and Decem

Entered as second-class matter, December 29, 19
the Post Office at Worcester, Mass., under the A
August 24, 1912. Acceptance for mailing at specia
of postage provided for in Section 1103, Act of Octo
1917, authorized January 24, 1921.

Aim and Character of the Work

Clark University will again offer during the second semester of this year (1935-36) a series of courses of college grade for students outside of the regular undergraduate body. Some of these courses, both in respect to content and time of offering, are particularly intended for teachers in schools of Worcester and the surrounding region. Others, however, have no such limited objective, but should appeal to the public on the grounds of utility or general culture.

All of these courses are open to mature persons who, in the judgment of the instructor, are adequately prepared. Those who do not desire official records of work done are admitted as "auditors" and are not required to "matriculate." These courses are of college grade and may be used for credit by those who are formally enrolled as candidates for the degree of Bachelor of Education at the University. Candidates for the degree of Bachelor of Arts may include these courses in their programs only when official authorization in advance is secured from the College Board. In similar circumstances candidates for the degree of Bachelor of Arts should secure the approval of their respective departments in each case.

Note: While these courses have always been open to high school graduates, they are this year particularly called to the attention of seniors and recent graduates with the thought that because of existing economic conditions, the opportunity for further study of this kind might be welcomed by those without employment or those who cannot at present attend college at a distance.

Date of Opening

Classes will meet for organization and the beginning of work during the week Feb. 3-8, 1936, on the day specified in the description of each course.

Attendance at the first meeting and promptness at all classes are highly desirable.

Registration and Charges

Registration involves the filling out of an enrollment card and payment of the fee. Students are not enrolled until the *enrollment card and the fee* for each course have been received by the Bursar. Those who desire to avoid the delay involved in making payments at the office of the Bursar may enroll by mail.

Tuition charges are \$8.00 for a course meeting one hour a week for one semester, and \$15.00 for a course meeting two hours a week for one semester.

The matriculation fee of \$5.00 is a charge for the opening of an official record in the office of the university Recorder. Matriculated students receive official certificates on which credit toward a degree may be granted at Clark University or elsewhere, subject to the standing regulations of the institution to which they may be presented.

Class lists for all courses will be closed by February 15, 1936, and all fees are payable by noon of that date. Enrollment after that date will be possible only by consent of the instructor concerned.

A late registration fee of one dollar for each week of delay, or fraction thereof, will be charged in all cases when the fee is paid after the above date.

Enquiries, applications, and registrations may be attended to by mail, to the advantage of those concerned.

Standards, Credit, Terms of Admission

Only courses of college grade will be given, but students without the conventional preparatory training may be admitted to any course at the discretion of the instructor.

Courses will meet for periods of 50 to 100 minutes. The usual hours for afternoon courses running for 100 minutes will be from 4:20 to 6:00; hours for Saturday and evening courses will be decided by the individual instructors.

Credit. When accepted for credit toward the degree of Bachelor of Education in this University, one semester hour will normally be granted for a one-hour course (50 minutes) meeting 16 times, or two semester hours for a two-hour course (100 minutes) meeting 16 times.

Regular outside preparation or collateral reading is expected in every course, except in the case of "auditors." This outside work will be equal in amount to the preparation expected in regular undergraduate courses, namely an average of two hours per week for each semester of credit in the course. Those who prefer to attend without doing any outside work are welcome, but will be classed as "auditors."

In view of the outside work required, it is obviously unwise for students who are otherwise occupied to attempt many of these courses at the same time. By vote of the committee in charge of this work, persons who are in any full-time employment will not hereafter be permitted to

register at any one time for courses carry more than four semester hours credit.

The Degree of Bachelor of Education

This degree is offered to teachers with at least one year's full-time teaching experience. Admission to candidacy for the degree is based on satisfactory academic record showing the completion of a regular two-year Normal School course or its equivalent. The courses described in the circular may be used toward the completion of the requirements for this degree.

It is important to note that acceptance for enrollment in these courses carries no implication whatever in respect to candidacy for the degree. Those who intend to become candidates should file a formal application at the earliest possible date. A total credit equal approximately to one quarter of the entire amount normally required must be completed *after admission to candidacy* before the degree will be conferred.

A descriptive circular containing regulations for this degree (also printed in the General Catalog), as well as blank forms for application for admission to candidacy may be obtained from the University.

FOR FURTHER INFORMATION ADDRESS

LYDIA P. COLBY, *Records*

LIST OF COURSES

NOTE: Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at the discretion of the instructor in charge.

Biology

BOTANY. A systematic study of the flower-plants, with special emphasis upon our local flora. A laboratory fee of \$1.00 is required.

Two semester hours

Tuesdays, 4:20-6:00

MR. POTTER

Room 206

THE BIOLOGY OF ANIMALS. This course aims to furnish a basis for the interpretation of life as it appears in the animal world, including man. The study of a series of forms of increasing complexity develops a conception of what an animal is and how animals have solved the problem of existence in changing surroundings. Structures and activities are considered in relation to each other to the animal as a whole. Lectures, demonstrations and occasional field trips.

A laboratory fee of \$1.00 per semester is charged for this course.

Semester Hours

Tuesdays, 4:20-6:00

MR. POMERAT

Room 206

Economics and Sociology

See **Sociology**

Education

THE PRINCIPLES OF VOCATIONAL GUIDANCE. The course will present the basic principles and the

current practices of vocational guidance. The objectives of the course are: (a) To acquaint teachers and school administrators with a movement which affects the entire academic and vocational curriculum; (b) To show the movement of vocational guidance with its ethical, cultural, social, and economic implications.

Two Semester Hours

Tuesdays, 4:20-6:00

MR. ILLINGWORTH

Room 102

English

THE SHORT STORY IN ENGLISH AND OTHER TONGUES. A reading course in the fascinating art of the Short Story. The emphasis will be on the American and the English, with selected and representative readings from other nationalities. Biographical and critical lectures. Lectures also on the other contemporaneous arts. Written reports required of those who take the course for credit.

Two Semester Hours

Saturdays, 10:00-11:40

MR. DUNN

Room 119

French

1. ELEMENTARY COURSE. A continuation of the general introductory work of the first semester with particular emphasis upon French-to-English translation. In addition to the reading of a volume of easy short stories and regular drill in pronunciation, the material in Galland and Vaughan *Progressive French Grammar*, Lessons XII to XXIV, will be completed during the second semester.

open to those who have studied French for a year in the high school, or one semester in college, or longer.

Semester Hours

days, 4:20-6:00

MR. DOUGHERTY

n 218

SECOND YEAR COURSE. A continuation of the first semester in aural comprehension in the reading techniques, combining both silent reading and careful translation. Early in the second semester the active skills will be developed by the exercises in oral and written French in Part Two of the text. Story material will be resumed as soon as the basic reading lessons of the present text have been completed. Intensive pronunciation drill on a phonetic basis. This course is open to new registrants who have completed not less than six credit hours of college French or two full years in the high school.

Semester Hours

days, 4:20-6:00

MR. CHURCHMAN

104

ADVANCED COURSE: PRACTICAL FRENCH. The purpose of this course is the development of proficiency in the use of the spoken and written language. Although as far as possible French will be the language of the classroom, it is not assumed that the student has already acquired proficiency. This will come with practice, and those students who have studied French for two years will consider themselves satisfactorily prepared. Advanced French, when the content is changed, will be repeated once with full credit, but not

more than once. Although this is a continuation of the work of the first semester, new students will find no difficulty in entering at this time.

Two Semester Hours

Tuesdays, 4:20-6:00

MR. LELAND L. ATWOOD

Room 104

4. SEMINAR. The Contemporary French novel and papers, usually in French, by members of the class and invited guests, on current topics of interest in French literature and civilization.

Open to the general public without fee or credit. Open also for credit to those who have had preparation similar to that given in course 3 or who pay the regular fee. May be taken for credit indefinitely, as the content is continually changing.

One Semester Hour

Wednesdays, 5:10-6:00

MR. LELAND L. ATWOOD

Room 104

5. SUPPLEMENTARY COMPOSITION AND WORK. Designed especially to aid credit students in the Seminar in the preparation and criticism of papers there presented, but open to other interested and qualified persons. In addition to the preparation of papers, there will be a systematic study of pronunciation and phonetics and of special points in syntax (cf. Armstrong's *Syntax of the French Verb*, Holbrook's *Living French*, Fraser and Squair's *Complete French Grammar*).

One Semester Hour

Wednesdays, 4:20-5:10

MR. LELAND L. ATWOOD

Room 104

Geography

CARIBBEAN AMERICA. A lecture course on geography of Mexico, the Central American s, and the islands bordering the Caribbean; historical background of the islands of the bbean and the republics of the mainland; the or geographic regions of the different coun-; the commercial products of the republics and ds; the expansion of the United States into Caribbean; the evolution of the regions in obean America since the Spanish-American; the commercial importance of the various olics and islands as a market for manufac- wares, and as a source of foodstuffs and materials. A number of lectures will be rated with slides. This course continues the of the first semester but new registrants be admitted in the second semester.

Semester Hours

days, 4:20-6:00

MR. C. F. JONES

120

POLITICAL GEOGRAPHY. This lecture course continuation of the first semester course on al geography but can be taken satisfactorily v registrants who have not attended the first Special reference is made to the present al problems of the world, their causes and e solutions.

Semester Hours

days, 4:20-6:00

MR. VAN VALKENBURG

120

3. ANTHROPO-GEOGRAPHY. A résumé of graphic elements in the evolution of man's domestic and social activities, including his home, clothing, his food, his weapons, his means of transport and trade and industry, and other material equipment; and of his language, his laws, his religion, his arts and sciences, and similar attributes, chosen in the form of lectures and limited reference works.

Two Semester Hours

Mondays, 4:20

MR. EKB

Room 120

German

1. (ELEMENTARY GERMAN. To be offered 1936-37). This course is designed to give practical training in German to persons with little or no previous experience in the language. It makes a careful study of the grammatical fundamentals and the close relationship between English and German, and uses the spoken word freely for the acquisition of a limited active vocabulary. Reading of easy prose and poetry.

MR. BOSS

2. INTERMEDIATE COURSE. Continuation of first semester. This course offers oral and written composition, stressing the fluent use of modern German. The reading material includes prose selections, poems, and songs. Some of the poems and songs will be interpreted with the aid of records of prominent actors and singers.

Two Semester Hours

Wednesdays, 4:20-6:00

MR. BOSS

Room 106

(INTRODUCTION TO GERMAN LITERATURE. To
ferred in 1936-37). Third year course. Ex-
re conversation and composition in conjunc-
with the reading of an introductory book
Fleissner's *Deutsches Literaturlesebuch* during
rst semester, to be followed in the second
ter by the reading of select works of Goethe
Schiller. New students may enter in the
1 semester.

MR. JANTZ

INTRODUCTION TO THE CULTURE OF THE GER-
SPEAKING COUNTRIES. Continuation of first
ter. An illustrated lecture course aiming to
the development of German civilization, its
r, folk-lore, art, music, and literature from
rly Middle Ages to the present day. Guest
rs will be invited from time to time to dis-
arious phases of the subject. The facilities
Worcester Art Museum: books, slides, other
ative material, phonograph recordings,
eading German films, will be available.
ctures will therefore be held at the museum
t at Clark. This course may be taken either
elective with no language prerequisite and
lateral reading in English, or as an ad-
language and literature course with most
reading in German confirmed by comprehen-
ritten reports.

Semester Hours

ays, 4:20-6:00

MR. JANTZ

Hall, Worcester Art Museum

History

POST-WAR EUROPE. International affairs of 1919 will be chiefly considered, with the aim of making clear the present situation arising from Hitler's foreign policy and Italy's ambition for Ethiopia. Some attention will of necessity be given to internal developments in the principal European nations. Prescribed reading and lectures.

Two Semester Hours

Thursdays, 4:20-6:00

MR.

Room 120

Psychology

SOCIAL PSYCHOLOGY. Consideration will be given by the methods of lecture, reading, report, discussion, to the relations of social and general psychology and to the principal social activities of individuals, notably communication, family relationships, the cooperative process (including such topics as law, politics, delinquency, leadership, etc.), education, and personality formation and anomalies. Opportunity will be available for attendance during April at a series of lectures by guest speakers (in connection with the departmental seminar) on the last-mentioned topic.

Two Semester Hours

Tuesdays, 4:20-6:00

MR. WILLOUGHBY

Room 115

Sociology

MODERN SOCIOLOGICAL PROBLEMS (New Series). This course is intended for all men and women who feel that a clear usable knowledge of Modern Sociology is essential to their understanding of the world.

an-Relationship problems is essential to an understanding of today's complex, challenging zation.

Two main types of problems will receive most attention: (1) Those centering about The Family, Courtship and Marriage, since these problems are at the core of our social system; and (2) Those revolving about Crime and Punishment, since such problems are expressions of civilization's attempts to regulate human conduct in behalf of the greatest good for the greatest number. Lectures—readings—discussions.

Semester Hours

Days, 4:20-6:00

MR. BALSAM

115

STAFF

ATWOOD—Head of Department of Modern Languages, Worcester Polytechnic Institute.

BALSAM—Assistant Professor of Sociology.

BOSSHARD—Associate Professor of German.

CHURCHMAN—Professor of Romance Languages.

DODD—Professor of Rhetoric.

DOUGHERTY—Assistant Professor of Romance Languages.

EMER EKBLAW—Professor of Geography.

ELLINGWORTH—Associate Professor of English.

JANTZ—Assistant Professor of German.

JONES—Professor of Geography.

LARUE—Formerly Professor in Assumption College.

LEE—Associate Professor of European History.

C. M. POMERAT—Instructor in Biology.

DAVID POTTER—Associate Professor of Biology.

S. L. VAN VALKENBURG—Professor of Geography.

R. R. WILLOUGHBY—Research Associate in Psychology.

FACULTY COMMITTEE IN CHARGE

H. M. BOSSHARD

S. J. BRANDENBURG

R. S. ILLINGSWORTH

VERNON JONES

H. P. LITTLE

P. H. CHURCHMAN, Chairman

COURSES FOR GRADUATE
STUDENTS IN EDUCATION
SEND FOR INFORMATION

SPECIAL COURSES FOR TEACHERS

With the needs of candidates for the degree of Bachelor of Education in mind, the University offers a series of college courses for adults designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region. These courses are also open to the general public. When occasion arises the subject of aims and methods of teaching is treated in some of these courses.

During the academic year 1935-36, the following courses have been given:

BIOLOGY

- | | |
|----------------------------|-------------|
| 1. Botany. | MR. POTTER |
| 2. The Biology of Animals. | MR. POMERAT |

ECONOMICS AND SOCIOLOGY

- | | |
|----------------------------------|------------|
| 1. Modern Sociological Problems. | MR. BALSAM |
|----------------------------------|------------|

EDUCATION

- | | |
|---|-----------------|
| 1. Educational Guidance. | MR. ILLINGWORTH |
| 2. The Principles of Vocational Guidance. | MR. ILLINGWORTH |

ENGLISH

- | | |
|------------------------------|----------|
| 1. England Goes to the Play. | MR. DODD |
|------------------------------|----------|

FRENCH

- | | |
|---|------------------|
| 1. Elementary Course. | MR. DOUGHERTY |
| 2. Second Year Course. | MR. CHURCHMAN |
| 3. Advanced Course: Practical French. | MR. L. L. ATWOOD |
| 4. Seminar. | MR. LARUE |
| 5. Supplementary Composition and Oral Work. | MR. LARUE |

GEOGRAPHY

- | | |
|-------------------------|--------------------|
| 1. Lands and Peoples. | MR. EKBLAW |
| 2. Anthro-po-Geography. | MR. EKBLAW |
| 3. Caribbean America. | MR. C. F. JONES |
| 4. Political Geography. | MR. VAN VALKENBURG |

GERMAN

- | | |
|-------------------------|--------------|
| 1. Intermediate Course. | MR. BOSSHARD |
| 2. German Culture. | MR. JANTZ |

DEPARTMENTAL ANNOUNCEMENTS

Beginning September, 1934, units of instruction for undergraduates are listed as "courses" and fractions of a "course." A "course" normally meets for class room or laboratory exercises three or four times weekly throughout the year. A "half course" normally meets with the same frequency throughout one semester. Classes meeting twice weekly normally yield credit for one third of a course in each semester.

Each unit of undergraduate instruction as listed below constitutes one "course" unless its value as a fractional course or a multiple course is indicated.

Advanced courses, not primarily for undergraduates, are announced with a statement of the number of weekly meetings. Undergraduates who are permitted to enroll in such courses should carefully check with the Recorder to avoid any misunderstanding in regard to the equivalent number of "courses" represented by their programs.

Courses offered by the several departments are listed under three headings:

1. PRIMARILY FOR UNDERGRADUATES, designated by numbers beginning with the figure (1).
2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES, designated by numbers beginning with the figure (2).
3. PRIMARILY FOR GRADUATE STUDENTS, designated by numbers beginning with the figure (3).

Brackets [] about the announcement of a course indicate that the course is not offered during the current year.

Credit for the first semester alone is given in all courses except in cases where a department, by a note following the description of the course, specifically reserves the right to withhold credit until the second semester of the course is satisfactorily completed.

Any course may be entered at the beginning of the second semester, with the consent of the instructor, by students who are prepared to take up the work of the course at that time.

DEPARTMENT OF ANCIENT LANGUAGES

PROFESSOR BRACKETT

For a major in ancient languages the requirement is twenty-four semester hours from the courses described below.

COURSES IN GREEK

11. First Year Course. Divisible only in special cases with the approval of the department and of the College Board.

Open to freshmen.

Through the year. M. W. F., 9.

MR. BRACKETT

[**12. Xenophon, *Anabasis*; Homer, *Iliad*.** About ten weeks at the beginning of the year are devoted to reading selections from the *Anabasis*, the principal aim being to increase the student's facility in translation. The remainder of the year is devoted to the *Iliad*.

Open to freshmen.

Through the year. M. W. F., 9.

MR. BRACKETT]

[**13. The Greek Drama.** Aeschylus, *Prometheus Bound*; Sophocles, *Antigone*; Euripides, *Medea*.

Through the year.

MR. BRACKETT]

16b. Greek Tragedy in English.
Aeschylus, Sophocles, Euripides.

Half course, second semester. T. Th. S., 11.

MR. BRACKETT

[**Greek 17. Greek Civilization.** This course will cover the period from the beginnings of Greek history to 146 B.C.

Open to freshmen with the consent of the instructor.

Through the year. M. W. F., 11.

MR. BRACKETT]

COURSES IN LATIN

1. PRIMARILY FOR UNDERGRADUATES

[**11. First Year Course.**

Open to freshmen.

Through the year. T. Th. S., 11.

MR. BRACKETT]

12. Cicero, First Oration against Verres, selected Epistles; **Selections from Catullus; Horace**, selected Epodes and Odes.

Open to freshmen.

Through the year. M. W. F., 11.

MR. BRACKETT

15. Selections from Caesar, Cicero and Ovid. This course is open to students who have had Latin 11 or its equivalent. The principal aim is to increase the student's ability to read Latin.

Through the year. T. Th. S., 9.

MR. BRACKETT

[**16a. Selections from Lucretius, *De Rerum Natura* and Cicero, *Tusculan Disputations*.**

Half course, first semester.

MR. BRACKETT]

[18b. The Teaching of Latin; Latin Composition.]*Half course*, second semester.

MR. BRACKETT]

[17. Roman History.] This course will deal with the history of Rome from the earliest period to the downfall of the Western Roman Empire.

Half course.

MR. BRACKETT]

DEPARTMENT OF BIOLOGY

PROFESSOR HOAGLAND, ASSOCIATE PROFESSOR POTTER,
ASSISTANT PROFESSOR PROSSER

MR. POMERAT,* MR. —————†

Also PROFESSOR HUNTER AND ASSISTANT PROFESSOR GRAHAM
*of the Department of Psychology***

GENERAL STATEMENT

The Department of Biology is on the second floor of the Main Building of the University. The laboratories are well-equipped for the courses offered and contain special equipment for advanced investigations in physiology. In addition, annual funds are available for purchasing and building apparatus as it may be required. The University Library contains complete files of the more important periodicals and reference works. Certain assistantships, fellowships and scholarships are available from time to time.

UNDERGRADUATE WORK

Biology 11 presents a comprehensive view which is prerequisite to all other courses in the department. Courses 12, 14, 15a, 16b, and 17b are planned to give the undergraduate a working acquaintance with fundamental aspects of zoölogy and botany. Courses 18 and 200 introduce the student to the behavior of living systems.

An undergraduate majoring in biology is expected to complete at least:

1. Biology 11 and eighteen semester hours in advanced courses, including Biology 12 and 18. Attendance at weekly discussion groups is also expected.

†To be appointed for 1936-37.

*To be absent on leave, 1936-37.

**Advanced courses in Psychology given by Professor Hunter and Professor Graham may, with the permission of the chairman of the department, be credited as courses in Biology.

2. Mathematics 111.
3. Physics 11.
4. Chemistry 11.
5. French or German to an amount sufficient for a good reading knowledge.

Undergraduates who *major* in biology should *minor* in chemistry or in physics. Biology 200, preferably taken in the senior year, brings to a biological focus, in the study of living organisms, many chemical and physical principles.

The departments of chemistry, biology and physics recommend the following program for pre-medical students. These recommendations do not in any way affect the general requirements of the College which apply to all students in the College.

Freshman Year

Chemistry	10 or 11	General Chemistry
Biology	11	General Biology
English	11	
A course in "division B"		
A modern language		
Mathematics 111		

NOTE: Students who are not prepared to carry a program of six courses successfully, will be forced to postpone either Biology or Chemistry until the second year, with consequent readjustments in succeeding years.

Sophomore Year

Chemistry	13	Qualitative Analysis
Biology	12	Comparative Anatomy
A course in "division B"		
A modern language		
Fine Arts (a required course)		

NOTE: 1. If necessary, a petition to postpone Fine Arts until the Junior year will be granted by the College Board.

2. A second course in college mathematics is strongly recommended.

Junior Year

Chemistry	14, first semester	Quantitative Analysis
Chemistry	19, second semester	Physical Chemistry
Biology	201	Comparative Physiology
Physics	11	General Physics
English		

An elective to complete any general requirements not already met in full.

Senior Year

Chemistry	15	Organic Chemistry, lectures
Chemistry	110	Organic Chemistry, laboratory
Biology	200	Bio-physics
A second advanced course in Biology		
An elective		

GRADUATE WORK

By action of the Board of Trustees, the Department of Biology was reorganized on a full graduate basis beginning in September, 1931. Students whose records are approved by the department may be admitted by the Graduate Board for work leading to the degree of Master of Arts in biology or to the degree of Doctor of Philosophy in physiology. The general plan of organization involves a relationship between the Department of Psychology and the Department of Biology whereby students in either department may be credited with specific advanced courses in the other. Certain advanced courses in the departments of physics, chemistry and mathematics may also be credited in the Department of Biology.

The general requirements for the master's degree and for the doctorate are stated elsewhere in this catalog. In addition to the general requirements, the department has a supplementary requirement that an additional copy of each doctor's dissertation must be deposited with the department.

The analysis of fundamental activities of living organisms is necessarily undertaken upon the basis of physico-chemical principles. For this reason a foundation in physics, chemistry and mathematics as well as in biology is essential for advanced work in physiology. Physiology bears a relation to medicine similar to that of physics to engineering and in recent years has developed especially rapidly as a fruitful field of investigation.

COURSES IN BIOLOGY

It should be borne in mind that many of the courses in Biology are given in alternate years. The special course sheets given out at the time of registration should be consulted.

1. PRIMARILY FOR UNDERGRADUATES

11. General Biology. An introduction to the fundamental principles and problems of biology. Indivisible course.

Open to freshmen.

Through the year. M. W. F., 11; M., 2.

MR. POTTER AND MR. POMERAT

12. Vertebrate Zoology. A study of the morphology of the vertebrates from a comparative standpoint which traces the evolution of animals from fish to mammals. Lectures and laboratory work.

Through the year. W. F., 9; T. F., 2.

MR. POMERAT

13. Seminar in General Biology. Credit is not given for this course. All students in the department are invited to attend and to participate.

STAFF OF THE DEPARTMENT

14. Botany. First semester, morphology and taxonomy of the lower plants. The laboratory work consists of a critical study of types from the most important natural families.

Second semester, systematic botany of the higher plants.

Prerequisite, Biology 11, first semester.

Through the year. Tu. Th. S., 11; Th., 2.

MR. POTTER

[15a. Invertebrate Zoology. A detailed study of the structure, life history, habits, and distribution of invertebrate types. Two lectures and two laboratory periods per week.

Half course, first semester.

MR. POMERAT]

Not to be offered in 1936-37.

16b. Histology. A comprehensive course dealing with tissue structure. Emphasis is placed on the study of mammalian tissues. Two lectures and two laboratory periods per week.

Half course, second semester.

MR. POMERAT

Not to be offered in 1936-37.

[17b. Embryology. A consideration of the fundamentals of embryology. Two lectures and two laboratory periods per week.

Half course, second semester.

MR. POMERAT]

Not to be offered in 1936-37.

18.* Comparative Physiology. The principal types of functions in living systems as they occur in animals and plants. Biology 11 is a prerequisite and Biology 12 is advised. Two lectures and two laboratory periods per week.

Through the year. Tu. Th., 11 and two laboratory periods.

MR. PROSSER

160. Microscopical Technique. The principles of fixing, sectioning and staining tissues will be worked out in the laboratory.

Half course, first semester.

MR. POTTER

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

[200. General Physiology (Biophysics). Open to students who have passed Biology 11 and 12 or their equivalents and who satisfy the instructor as to their preparation in physics, chemistry and mathematics. Chemistry 11, Physics 11, and Mathematics 111 or their equivalents are prerequisite. Biology 18 is strongly advised.

*To be designated as Biology 201 in 1936-37 and thereafter.

The course is designed to give the student an acquaintance with the major problems of physiology. The nature of living substance is considered in terms of its component materials and their physico-chemical properties. Three lectures and two laboratory periods per week.

Double course, through the year. M. W. F., 11, and laboratory periods. MR. HOAGLAND]

201. (See Biology 18, above).

[202a. **Physiology of Reproduction.** A discussion of the problems of sexual periodicity, mating behavior, hormonal control of reproduction processes, the biology of the testes and the ovary.

Half course, first semester. Hours to be arranged. MR. POMERAT]
Not to be offered in 1936-37.

[202b. **Genetics.** An introduction to the principles of genetics.

Half course, second semester. MR. POTTER]

203. **Special Problems.** Advanced semi-independent study of an approved topic under the direction of a member of the staff.

Hours and credit to be arranged. STAFF OF THE DEPARTMENT

[204. **Seminar in the Structure and Function of Central Nervous Systems.** Material from all levels of animal organizations will be considered.

Two hours, through the year. Hours to be arranged.

MR. PROSSER]

205. **Seminar in Experimental Biology.** Credit is not given for this course. All students in the department are invited to attend and to participate.

STAFF OF THE DEPARTMENT

Psychology 203a. Reflex Activity. (For description, see announcement of Department of Psychology.) MR. GRAHAM

Psychology 203b. Quantitative Interpretation of Experimental Data. (For description, see announcement of Department of Psychology.) MR. GRAHAM

Psychology 206. Animal Behavior. (For description, see announcement of Department of Psychology.) MR. HUNTER

Psychology 207a. The Learning Process. (For description see announcement of Department of Psychology.) MR. HUNTER

3. PRIMARILY FOR GRADUATE STUDENTS

306. **Mechanisms of Reaction (seminar).** Mechanisms underlying the behavior of organisms are considered from the standpoint of experimental physiology.

Two hours, through the year.

MR. HOAGLAND

307. Readings in Physiology. Open to candidates for the doctorate in physiology. Reading and tutorial conferences on special topics. Credit to be arranged. MR. HOAGLAND and MR. PROSSER

308. Research. Dynamics of Vital Phenomena. Credit to be arranged. MR. HOAGLAND

Psychology 305. Research in Animal Behavior and Sensory Physiology. (For description, see announcement of Department of Psychology.) MESSRS. HUNTER AND GRAHAM

Psychology 316. Receptive Processes. (For description see announcement of Department of Psychology.) MR. GRAHAM

DEPARTMENT OF CHEMISTRY

PROFESSOR MERIGOLD,* PROFESSOR WARREN, ASSOCIATE PROFESSOR
BULLOCK

Courses in chemistry fall into two groups:

First, those primarily for undergraduates. They furnish a foundation for professional work in chemistry or medicine, and are suitable for students desiring some knowledge of the subject as part of their general education.

Second, those, primarily for graduates, leading to advanced degrees.

UNDERGRADUATE WORK

Students who intend to become professional chemists or to study for an advanced degree in chemistry should *major* in chemistry and *minor* in physics, or take at least two years' work in that subject.

They are advised to conform as closely as possible to the schedule given below.

First year: Chemistry 10 or 11; Mathematics 111; English 11; social science (Division B) and foreign language.

Second year: Chemistry 13 and 14; Physics 11; English; Fine Arts; and a continuation of work in foreign language.

Third year: Chemistry 15, 110, and 19; Mathematics 12; an elective.

Fourth year: Five courses, chosen from the following: Chemistry 214, 215, and 208; Physics 14 and 15; an elective. A choice, with reference to future work, should be made after consultation with the chemistry staff.

*Absent on leave, first semester 1935-36.

Those students who intend to enter the field of secondary education should acquaint themselves with the requirements in "education" of state and local licensing boards and prepare to meet these requirements. This may necessitate the omission of certain courses in chemistry scheduled for the third and fourth years.

Students intending to study medicine should consult the statement regarding pre-medical training in the announcement of the Department of Biology.

Attention is called to laboratory fees and breakage deposits listed under the general heading "Laboratory Fees and Deposits."

GRADUATE WORK

The Department of Chemistry provides graduate students with training in the fundamental principles of chemistry sufficiently broad to prepare them adequately for a scientific career.

Requirements for advanced degrees cannot be met merely by pursuing a course of studies or by carrying on an investigation. Hence no definite course of graduate studies is outlined. Ordinarily, completion of the program outlined above will be a prerequisite for graduate work in chemistry.

All graduate students are required to have an adequate reading knowledge of French and German. This requirement applies to candidates for either the master's degree or the doctor's degree.

Students registered for advanced degrees are expected to spend not less than eighteen hours per week in the laboratory. This may include special laboratory work in organic, inorganic, and physical chemistry.

Graduate scholarships and fellowships are available to students in this department.

COURSES IN CHEMISTRY

1. PRIMARILY FOR UNDERGRADUATES

10. Elementary Chemistry. Intended primarily for students who have not previously studied chemistry. Equivalent to course 11 as preparation for advanced courses.

Indivisible course.

Open to freshmen who have not studied chemistry in high school. Through the year. Tu. Th. S., 9; Th., 2. MR. BULLOCK

11. General Chemistry. Chiefly inorganic. Systematic study of the elements and their principal compounds and the fundamental laws and theories of chemistry. Three lectures and three hours of laboratory work per week. Divisible only by consent of instructor.

Open to freshmen who have studied chemistry in high school.

Through the year. M. W. F., 11; M., 2. MR. MERIGOLD

13. Qualitative Analysis, Basic and Acid. Chiefly laboratory work, nine hours per week. Occasional lectures, and recitations upon the theories involved. Prerequisite, course 11 or its equivalent.

Through the year. Tu. F., 2. MR. BULLOCK

14. Quantitative Analysis. Chiefly laboratory work, with occasional lectures, recitations, and problems. Six hours of laboratory work, and one lecture per week. Prerequisite, course 13.

Through the year. Tu., 3:30; Th., 2. MR. MERIGOLD

15. Elementary Organic Chemistry. Lectures on the fundamental principles of organic chemistry. Prerequisite, course 11 or its equivalent. Course 13 is also recommended.

Through the year. M. W. F., 8. MR. WARREN

19. Elementary Physical Chemistry. Lectures, recitations and problems on the theoretical aspect of chemistry including gases, liquids, solids, solutions and equilibria. Prerequisite, Chemistry 13.

Through the year. Tu. Th. S., 10. MR. BULLOCK

110. Organic Synthesis and Analysis. Laboratory work in the preparation of typical organic compounds. Course 110 should be taken, if possible, in connection with course 15. Nine hours of laboratory work per week. Open only to students who take or have taken courses 13, 14 and 15.

Through the year. M. Th., 2. MR. WARREN

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

208. Physical and Inorganic Chemistry. Lectures and laboratory work, nine hours per week. Prerequisites, Mathematics 101 or 12, Chemistry 14 and 19. Required for advanced degrees in chemistry.

Through the year. F., 2, and additional hours to be arranged.

MR. BULLOCK

212b. History of Chemistry. Outline of the historical development of the science, and the relation of chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis. Open to graduate students and seniors who take or have taken Chemistry 15 and 19 or equivalent courses. Required for advanced degrees in Chemistry.

Half course, second semester. Tu. Th., 11. MR. MERIGOLD

214. Advanced Quantitative Analysis (including gas analysis). Prerequisite, course 14. Lectures and laboratory work, nine hours per week.

Through the year. Tu. Th., 2. MR. MERIGOLD

215. Advanced Organic Synthesis. The preparation of more difficult organic compounds. Prerequisite, course 110.

Through the year. M. Th., 2, and an additional laboratory period.

MR. WARREN

216. Journal Reading. Practice in reading current chemical literature. Required of all graduate students.

Two hours, through the year. Tu. F., 4.

MR. WARREN

[217. Intermediates and Dyestuffs. Methods of preparation, properties and uses of the commoner intermediates followed by a study of typical dyestuffs. Lectures, collateral reading, reports and thesis. Open to graduate students and undergraduates who take or have taken course 15.

Through the year.

MR. BULLOCK]

3. PRIMARILY FOR GRADUATE STUDENTS

32. Advanced Theoretical Chemistry. Discussion of the principles underlying the transformation of matter and of the conditions for equilibrium in various systems.

Three hours, through the year. Tu. Th. F., 9.

MR. MERIGOLD

33. Advanced Organic Chemistry. Lectures on selected subjects in organic chemistry.

Two hours, through the year. Tu. Th., 8.

MR. WARREN

35. Seminar. Staff and graduate students. Reports on research work being carried on in the laboratory and report and discussion of recently published work in related fields.

Once a week, through the year. W., 5.

STAFF OF THE DEPARTMENT

314. Research in Physical and Inorganic Chemistry.

MR. MERIGOLD

315. Research in Organic Chemistry.

MR. WARREN

318. Research in Organic and Physical Chemistry.

MR. BULLOCK

DEPARTMENT OF ECONOMICS AND SOCIOLOGY

PROFESSOR BRANDENBURG, ASSOCIATE PROFESSORS MAXWELL
AND LUCAS, ASSISTANT PROFESSOR BALSAM

The first aim of the department is to give students some systematic knowledge of the organization and functions of our economic and social order. But this cultural objective is not exclusive. Many of the courses in economics have a vocational aspect and should re-

ceive the attention of students looking forward to business or professional careers.

The courses in sociology provide training in the fundamental concepts and methods of the science and lead the student toward the solution of problems faced by every citizen in his social relationships. They aim to stimulate appreciation by the student of the work of specialists in many fields and of their contributions to problems of human welfare.

Economics 11 is a prerequisite to all other courses in economics, with the possible exception of Economics 14a and 14b, and is required of all majors in the department. Sociology 11 is a prerequisite to further work in sociology. Undergraduates majoring or minoring in the department are urged to take the introductory course in their sophomore year.

In making elections, students should bear in mind that many advanced courses are offered only in alternating years.

GRADUATE WORK

The department regularly offers courses leading to the master's and doctor's degrees. Students expecting to enter upon advanced work should have creditably mastered basic courses in the field equivalent at least to the ordinary undergraduate *major*, i.e., twenty-four semester hours; those whose preparation is inadequate should expect to make good the deficiency before proceeding to study for a higher degree.

A sufficient range of courses will be offered in cycles of two or three years so that graduate students may be adequately prepared for candidacy for the doctorate in this department. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work; undergraduate students in courses of the intermediate group will be expected to do work of substantially graduate caliber.

Fellowships, scholarships, assistantships, and other aids are available to a limited number of worthy students.

Attention is directed to closely allied courses offered in geography, history and international relations, and psychology.

COURSES IN ECONOMICS

1. PRIMARILY FOR UNDERGRADUATES

10. Social Science Survey. An introduction to methods and materials of the social sciences preparatory to later work in these fields. Indivisible course.

For freshmen; others will receive reduced credit.

Through the year. M. W. F., 9. MR. BRANDENBURG

11. Principles of Economics. An introduction to the fundamental economic principles, together with a study of the practical application of these principles in the problems of American life. Economics 10 is a desirable preliminary course.

Indivisible course.

Through the year. Tu. Th. S., 10. MR. LUCAS

13. Money, Banking, and the Business Cycle. Indivisible course

Through the year. M. W. F., 9. MR. MAXWELL

[14a. **Economic History of Western Europe since 1700.**

Half course, first semester. M. W. F., 10. MR. MAXWELL]

[14b. **Economic History of the United States.**

Half course, second semester. M. W. F., 10. MR. MAXWELL]

15a. Public Finance.

Half course, second semester. M. W. F., 10. MR. MAXWELL

16b. Economic Statistics. Primarily for students of Economics and Sociology.

Half course, first semester. M. W. F., 10. MR. MAXWELL

117. Principles of Accounting. The organization and use of financial records, with emphasis on their interpretation rather than on the technique of procedure.

Indivisible course.

Through the year. Tu. Th., 9; Th., 2-4. MR. LUCAS

To be omitted in 1937-38.

[18. **Business Organization and Business Finance.** A unified year's work in the structure of modern industry, the financial practices of corporations, and the problem of social control. The second half of this course is open only to students who have completed the first half.

Through the year. Tu. Th. S., 11. MR. LUCAS

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

22. Labor Problems.

Through the year. M. W. F., 8. MR. BRANDENBURG

[210a. **Economic and Social Reform.** The historical and critical study of various programs. Prerequisite, Economics 14.

Half course, first semester. M. W. F., 11. MR. BRANDENBURG]

[211b. **Contemporary Reform Movements.** A continuation of Economics 210a into special fields for selected students. Prerequisite, Economics 210a.

Half course, second semester. M. W. F., 11. MR. BRANDENBURG]

[25b. Problems in Public Finance.*Half course*, second semester.

MR. MAXWELL]

27a. International Trade and International Finance. The nature, theoretical basis, methods of financing, and governmental control of the international movement of goods. Economics 13 desirable.

Half course, first semester. Tu. Th. S., 11.

MR. LUCAS

28. Research in Selected Economic Problems. Limited enrollment; consent of the instructor required.

Credit and hours to be arranged. THE STAFF OF THE DEPARTMENT

29b. Economics of Transportation. History and present status of rail, water, and highway transport; rate-making; public regulation, government operation, and chief problems of the present.

Half course, second semester. Tu. Th. S., 11.

MR. LUCAS

3. PRIMARILY FOR GRADUATE STUDENTS

31. International Economic Policies.*Two hours*, through the year. M., 7-9.

MR. BRANDENBURG

[38a. History of Economic Thought to the End of the 18th Century.

Three hours, first semester. M. Th., 4:30-6.

MR. MAXWELL]

[38b. Modern Economic Thought. Attention will be given rather to the history of thought than to analytical criticism of specific doctrines.

Three hours, second semester.

MR. MAXWELL]

39. Value and Distribution.*Three hours*, through the year. M. W., 4-5:30.

MR. MAXWELL

311. Seminar in Economics and Sociology. Fortnightly round-table on investigations by members of the Seminar. Occasional outside speakers. All full time graduate students in the department are required to attend. Beginning with the academic year 1936-37, not more than *one hour* credit may be allowed.

Second and fourth Thursdays of each month at 7:30.

THE STAFF OF THE DEPARTMENT

COURSES IN SOCIOLOGY

The introductory course, Sociology 11, is prerequisite to all other courses in sociology. Students whose special interests are in sociological fields should note the departmental statement preceding this announcement of courses.

1. PRIMARILY FOR UNDERGRADUATES

(See also Economics 11)

11. Principles of Sociology. What is society, and what are its fundamental inter-relationships? In attempting to answer these

questions the course gives a comprehensive view of sociology as a social science, and serves as a solid base for further study in the field. Indivisible course.

Through the year. Tu. Th. S., 9.

MR. BALSAM

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

(See also Economics 22, 210a, and 211b.)

[21. **The Family.** The development of, and changes in, the family, from earliest records to the present. Various theories will be critically examined. Especial emphasis will be given to marriage and family-relationships of today.

Through the year. Tu. Th. S., 10.

MR. BALSAM]

22a. **Sociology of City Life.** Especially intended for students who may spend most of their lives in city environment, and who wish to have a scientific understanding of what cities mean and what they do to and for people. Individual investigations of city problems in and about Worcester.

Half course, first semester. Tu. Th. S., 10.

MR. BALSAM

23b. **Race Problems.** A study of the underlying social forces involved in the adjustment of such races as the Negro, the American Indian and other minority groups to the dominant American Culture; of the "racial superiority" concept and various major problems arising from mass migrations of peoples.

Half course, second semester. Tu. Th. S., 10.

MR. BALSAM

24. **Social Institutions.** Language, Art, War, Politics, Religion, Education, and other social institutions will be examined in their inter-relationships to the rest of society. Comparisons between primitive and civilized institutions, and between those of The Occident and The Orient will be made.

Through the year. Tu. Th. S., 11.

MR. BALSAM

[25. **Social Disorganization.** Crime, alcoholism, pauperism, prostitution, insanity, disrupted families, and other evidences of social disorganization will be examined as types of social maladjustment. An effort will be made to discover what social forces are involved in these problems and what remedies may be effective. A full third of the course will be devoted to a study of crime and punishment. Field Trips.

Through the year, Tu. Th. S., 10.

MR. BALSAM]

[27. **Educational Sociology.** A study of Education (organized and unorganized) and intellectual leadership in their relationships to politics, government, the family, religion, patriotism, business cycles, and other socio-economic phenomena. Education in the United States as it is and as it may be, will receive particular attention.

Divisible Course.

A third hour of credit may be arranged for properly qualified students.

Two hours, through the year. M., 2-4.

MR. BALSAM]

3. PRIMARILY FOR GRADUATE STUDENTS

(See also Economics 311.)

31a. Sociological Theories from Confucius to Comte. A critical examination of the sociological ideas of the major social theorists, in an attempt to evaluate their findings and conclusions.

Three hours, first semester, by arrangement.

MR. BALSAM

[31b. Sociological Theories Since Auguste Comte. A critical examination of the ideas of the major sociologists since Comte, in an attempt to evaluate their findings and conclusions.

Three hours, first semester, by arrangement.

MR. BALSAM

33. Research Work in Sociology. Capable students who offer acceptable proof of ability to work by themselves under guidance of the department, will be encouraged to do so. Credit granted upon the basis of work done. Research, readings and frequent consultations according to individual needs.

Hours individually arranged, through the year.

MR. BALSAM

COURSES IN EDUCATION*

FACULTY COMMITTEE ON COURSES IN EDUCATION

ASSOCIATE PROFESSOR JONES, *Chairman*, PROFESSOR CHURCHMAN,
ASSOCIATE PROFESSOR ILLINGWORTH

By vote of the Faculty a standing committee on "courses in education" has been established to "enlarge the number of courses offered in that field and to assume the administrative responsibility that a department would have in the conduct of such work, with the understanding that the committee is responsible to the Faculty." In organizing such courses the committee has two objectives in mind: first, to offer courses from which undergraduate students who plan to enter the teaching profession may elect up to 18 semester hours in the field of education; second, to offer courses to meet the needs of graduate students who are preparing for teaching.

COURSES FOR UNDERGRADUATES

Following the general principle that college students who are pre-

*Beginning September, 1936, THE DEPARTMENT OF EDUCATION will take over the offerings in this field. See announcement following the list of courses in Education for 1935-36.

paring to enter the teaching profession should secure a thorough background in the subjects which they expect to teach before they enter professionalized courses in education, the committee has ruled that the completion of two years of college work be a prerequisite for all the courses in education listed below. Twelve semester hours of credit in the subject involved is a prerequisite for all special-methods courses. (Additional prerequisites are stated in certain courses.) These special methods courses are given by specialists in the various subject matter fields; this practice conforms with the committee's view that methods of teaching a subject must be taught in connection with the content in that subject. In addition to the special methods courses, foundation courses are offered in as many of the different content-fields in education as possible.

The first five courses listed below should be considered as giving a general background for other more specialized courses in the field of education. A student expecting to elect only one or two courses in education should in general limit his choice to this group. A student expecting to elect twelve or more semester hours in education should include in his program three or more courses from this group.

COURSES FOR GRADUATE STUDENTS

Certain courses in education are open to graduate students of various departments. The Graduate Board has ruled that a graduate student who is definitely preparing to teach in secondary schools may, with the approval of his major department, elect one or more courses in education which may count toward the course requirement for a master's degree.

COURSES IN EDUCATION

Education 13b (Psychology 13b). Guidance in Secondary Schools. (For description see Psychology 13).

Half course, second semester. W., 11 and 12; F., 11. MR. JONES
To be given in alternate years.

Education 14a (Psychology 14a). Educational Psychology. A study of psychology as it bears upon the problems of education.

Half course, first semester. W., 11 and 12; F., 11. MR. JONES

Education 15b (Psychology 15b). Individual Differences and Exceptional Children. The course will include a study of the bright, the dull, the psycho-neurotic, and the delinquent child. (Graduate students may register for two hours' credit, and attend only the Saturday meetings.)

Half course, second semester. Th., 11; S., 11 and 12. MR. JONES

Education 19a (Psychology 19a). Psychology of Character. A survey and critical evaluation of the experimental evidence in the field and its application to education for character and citizenship. (Graduate students may register for two hours' credit and attend only the two hour meeting on Saturday.)

Half course, first semester. Th., 11; S., 11 and 12. MR. JONES

DEPARTMENT OF EDUCATION*

ASSOCIATE PROFESSOR JONES, A VISITING LECTURER. (to be appointed).

With the cooperation of: PRESIDENT ATWOOD, PROFESSOR CHURCHMAN, ASSOCIATE PROFESSOR ILLINGWORTH, and ASSISTANT PROFESSOR BALSAM.

GENERAL STATEMENT

In 1936 the Trustees of the University voted to establish a Department of Education designed primarily to offer work leading to the degree of Master of Arts in Education.

It has become increasingly evident that candidates for the bachelor's degree who include a few courses in Education in their undergraduate programs are not being adequately prepared to meet the demands for scholarly and professional training required by the better school systems. The Department of Education has been established with the aim of providing a fifth year of well organized professional work for students who are interested in preparing for educational work, particularly at the secondary school level. A limited number of courses will be open to juniors and seniors in the undergraduate division upon the consent of the instructor, but the Department recommends that undergraduate students concentrate upon the subject matter fields in which they desire to teach, reserving for the fifth year the professional work in the theory and practice of Education.

The requirements for the degree of Master of Arts in Education cannot be adequately stated in terms of courses to be taken, because the evaluation of the work of each student will be made on the basis of achievement rather than on the basis of courses completed. However the minimum essentials in terms of course requirements are outlined below.

UNDERGRADUATE WORK

Properly qualified students of the junior and senior classes may, upon the approval of the instructor, register for any of the courses

*Beginning September, 1936.

offered by the Department which are designated by a number beginning with the figure 2.

In keeping with the general plan to offer in five years a well rounded program of teacher training with emphasis on the professional aspects of the training in the fifth year, *an undergraduate major in Education is not offered.*

GRADUATE WORK

The rules and regulations stated in the current catalogue (See "Graduate Division"—"Rules and Regulations") as applicable to the degree of Master of Arts also govern the degree of Master of Arts in Education with the following changes and additions:

Course requirements—The student will be expected to elect one of the following groups of studies as the field in which he wishes to teach:

- (a) Mathematics and natural sciences
- (b) History and other social sciences
- (c) Ancient and modern foreign languages
- (d) English, alone or in combination with some related subject.

Prior to receiving the degree, the candidate must have completed not less than 5 year-courses in one of the above groups, or in a combination of groups approved by the Department of Education. At least one year-course of the five must be taken during residence for the advanced degree and must be passed with a grade satisfactory for graduate credit. In addition to the above requirement in the subject-matter field, sixteen semester hours of graduate work in Education will normally be required of the candidate during residence. The program of courses to yield these sixteen hours must be approved in advance by the department. Changes in the proportion of Education and subject-matter courses may be made by the department on the basis of the candidate's previous training. Work, additional to the above requirements, either in the subject-matter field or in Education, or both, may be required if this seems necessary for the adequate preparation of the candidate.

Thesis—The candidate must present a "thesis," or "special report," in which he demonstrates not only his grasp of the subject-matter which he plans to teach but also a mastery of the educational principles necessary for such teaching. The thesis will be adapted to the vocational needs of the candidate and will not be regarded as an index of his capacity for research. In this respect it will differ somewhat from the thesis required of candidates for the degree of Master of Arts in other fields.

CLARK UNIVERSITY BULLETIN

NUMBER 121

JUNE, 1935

COURSES IN EDUCATION LEADING TO THE MASTER OF ARTS DEGREE

FOR THE
ACADEMIC YEAR OF
1935-1936

The Bulletin is published in January, February, March, April, May, June, October, November and December. Entered as second-class matter, December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

COURSES IN EDUCATION

FOR THE

ACADEMIC YEAR OF 1935-1936

CLARK UNIVERSITY from the date of its founding has taken an active interest in the training of educators. The pioneer work of G. Stanley Hall in child study and that of William H. Burnham in mental hygiene placed Clark among the first universities in America to become interested in the problems of the teacher and the learner as suitable ones for scientific study. Thus there grew up, along with the older fields of study such as chemistry, physics, history, geography, and the like, the Department of Psychology, which has centered its attention upon the study of behavior in many forms. Every year graduates from the departments have gone into a variety of teaching positions ranging from that of supervisor or teacher in the elementary school to that of professor in normal school, college, and university.

In its rather wide experience in the training of educators, Clark has always held to the principle that a teacher must first of all be a scholar in the field in which he is to teach. It is encouraging to see that this view is spreading among superintendents of schools and Boards of Education, at least in New England. It is also encouraging to see in the University a sentiment growing in the majority of the departments to the effect that something more than mastery of subject-matter is needed

the preparation of teachers, at least for positions below the college level.

In consequence of the increased appreciation, on the part of the undergraduate and graduate departments at the University, of professional courses in Education in addition to thorough grounding in the subjects to be taught, the Faculty voted in 1932 to appoint a standing committee on Courses in Education. The duty of this committee was "to enlarge the number of courses offered in the field of education, and to assume the administrative responsibility that a department would have in the conduct of such work, with the understanding that the Committee is responsible to the Faculty."

In organizing such courses the Committee has kept in mind the needs of (1) undergraduate and graduate students without teaching experience who are preparing to enter the profession, and (2) experienced teachers holding baccalaureate degrees who wish to extend their training by full or part-time study. It is for this latter group especially that this bulletin has been prepared.

Organization of Courses Leading to a Master's Degree

To meet the needs for work in Education the University has not deemed it wise to set up a separate department, but rather to encourage the evolving of a plan of co-operation between the Committee on Courses in Education and certain interested departments such as those in psychology, history, geography, chemistry,

and economics-sociology. Students who are interested in pursuing study to the Master's degree with work in Education should plan to major in one of the regularly established departments, and elect a minor of from 6 to 12 semester hours in Education.

A plan has been worked out between the Committee on Courses in Education and the majority of the graduate departments in the university whereby this can be done. The cooperative arrangement is somewhat different for different departments, and therefore the requirements in each department will be presented separately.

REQUIREMENTS IN THE VARIOUS MAJOR DEPARTMENTS WHICH ARE ACCEPTING EDUCATION COURSES TOWARD THE M.A. DEGREE

The full requirements and prerequisites of the various departments cannot be given here, but some indication can be given as to the number of semester hours that will be required and the amount of Education which may be counted toward the degree. Prospective students who desire further information about the courses and requirements in the departments should write to the Recorder of the University for a general Catalogue. In addition to the course requirements given below, it will be necessary for the student to prepare an acceptable thesis and pass whatever general examination his department may require.

Department of Chemistry. Properly qualified students applying to this Department

through the Committee on Courses in Education will be required to complete 24 semester hours of work beyond the Bachelor's degree. Six hours of this may be taken in Education. This requirement will, of course, be increased in the case of students who cannot satisfy all prerequisites for courses which they wish to enter.

Department of Economics and Sociology. Candidates for the Master's degree in this Department must offer a minimum of 21 semester hours beyond the Bachelor's degree. A maximum of 10 semester hours in Education may be counted toward this course requirement. Failure to meet the prerequisites for any courses will obviously serve to increase the amount of work required.

Department of Geography. Students who come adequately prepared to enter the Graduate School might normally expect to complete in two years the work for the Master's degree with a major in Geography and a minor in Education, including as much as 12 hours in Education.

Department of History and International Relations. Candidates for the Master's degree in this Department must offer a minimum of 18 semester hours beyond the Bachelor's degree. The Department will accept a maximum of 6 semester hours of work in Education as a part of the course requirements. Failure to meet the prerequisites for any courses

will obviously serve to increase the amount of work required.

Department of Psychology. The number of courses in Education which may be offered for credit toward the M.A. degree in this Department will depend partly on the preparation and the aims of the candidate. The Department will be glad to consider each application individually through correspondence or personal conference.

The Department of Biology invites correspondence from properly qualified students who may wish to major in that Department.

Time of Meeting for Classes in Major Departments. The schedule for all classes is given in the general Catalogue of the University and need not be repeated here. A copy of the Catalogue may be obtained from the Recorder upon request. In the case of students who wish to do their work, or the major part of it, in afternoon and Saturday classes, it is suggested that they submit to the Chairman of the Committee on Courses in Education a tentative program of courses which they wish to offer for the degree and he will submit these to the various Departments for their consideration. Where there is sufficient demand for a course in the late afternoon or Saturday, it will be possible in certain cases to schedule it at that time, especially a course marked "hours to be arranged."

Summer School. Students interested in doing part of their work in summer session

should correspond with the Office of the Summer School.

ADMISSION REQUIREMENTS TO THE GRADUATE SCHOOL

Eligibility. Admission is granted only by the Graduate Board on the recommendation of the department. A graduate of more than average ability from a college or university which is on the approved list of the Association of American Universities is eligible for admission as a regular graduate student. A graduate of superior attainments from a four-year college not on the list is normally eligible for admission as a special graduate student for a specified period. A special graduate student may be admitted by the Graduate Board to regular graduate standing after a semester, or its equivalent, of study and upon the recommendation of his major department.

Application. A prospective student should write to the Recorder for an application blank. This blank should be filled out and sent to the Committee on Courses in Education. A recent photograph (passport size preferred) should accompany the application. A definite statement should be made by the prospective student as to whether or not he plans to do full-time residence work for all or part of the residence period or whether he plans to do all work on a part-time basis. If he proposes to do any part-time work he should state the hours which he plans to devote to university study. Application should be in by September

24 for first semester courses and by February 3 for second semester courses.

Admission. Admission will be determined by the Graduate Board's estimate of the applicant's general preparation and his plan for study. Acceptance into the graduate school does not, of course, imply in any way admission to candidacy for a degree. The latter is dependent upon the class-work and research done in the University.

Fees. The tuition for full-time students at the University is \$200.00 per year. In addition to this all students are required to pay a matriculation fee of \$5.00. Students carrying small programs are charged at the rate of \$10.00 per semester hour of course credit.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

Students who have been regularly admitted to the Graduate School, or others who have met all special requirements imposed by the Graduate Board, are eligible for the degree of Master of Arts if and when the following requirements are met: (1) The satisfactory completion of all course requirements imposed by the major department; (2) The preparation and defense of an acceptable thesis; and (3) The passing of a final oral examination of approximately one hour's duration.

It is important for students primarily interested in Education to note that since the Education courses are not organized into a Department of Education, the requirements for the degree of Master of Arts in Education are not the same as those for the degree of Master of Arts in other fields.

partment, it is impossible to elect Education as a major. However, it is believed that the needs of many students can be met by the co-operative arrangement which has been made with various departments whereby a liberal amount of work in Education may be taken as a minor. In general it is recommended that students interested in school administration should major in finance and taxation or socio-economic problems in the Department of Economics. Those interested in teaching or supervising certain subjects in the elementary or secondary school should major in the subject to be taught or supervised.

COURSES IN EDUCATION

(Any of the following courses are accepted for graduate credit except Education 17b and 9a.)

Education 14a (Psychology 14a). Educational Psychology. A study of psychology as it bears upon the problems of education. *Half course*, first semester. W., 11-1, F.,
Mr. Jones

Education 15b (Psychology 15b). Individual Differences and Exceptional Children. The course will include a study of the bright, the dull, the psycho-neurotic, and the delinquent child. (Graduate students may register for two hours' credit, and attend only Saturday meetings.)

Half course, second semester. Th., 11; S., 1.
Mr. Jones

Education 16b (Psychology 16b). Principles of Education. A survey of the aims, responsibilities, and general methods in education.

Half course, second semester. W., 11-F., 11. To be omitted in 1935-36.

Mr. Jones

Education 17b (Psychology 17b). Philosophical and Historical Foundations of Modern Education. A study of the historical development and philosophical bases of modern educational policies and practices.

Half course, second semester. W., 11-1; 11. To be offered in 1935-36. Mr. Jones

Education 19a (Psychology 19a). Psychology of Character. A survey and critical evaluation of the experimental evidence in the field and its application to education, character and citizenship. (Graduate students may register for two hours' credit and attend only the two hour meeting on Saturday.)

Half course, first semester. Th., 11; S., 11

Mr. Jones

Education 101a (French 101a). Teaching of Modern Languages. A study of the major problems in the teaching of French. Incidental references will be made to German and Spanish. Prerequisite, third-year college French or German course, taken previously or at the same time.

Half course, first semester. W., 4:20-6. (The third hour on separate topics will be arranged for undergraduates.) Mr. Churchman

Education 144a (English 144a). **The Teaching of English.** Methods of teaching poetry, drama, novel, short story, essay, oral and written composition. Prerequisite, at least 2 semester hours of English on college level. *Half course*, first semester. Hours to be arranged. To be omitted 1935-36.

Mr. Illingworth

Education 27b (Sociology 27b). **Educational Sociology.** Education (organized and unorganized) and intellectual leadership and their important relationships to such other social institutions as politics, government, the family, religion, patriotism, depressions, economic institutions, etc. Education in the U. S. as it is and as it may be, will receive particular attention. Prerequisite, Sociology 11. *Half course*, second semester. Tu., Th., S., 9. To be omitted 1935-36.

Mr. Balsam

Education 119a (Geography 119a). **Geography in Junior High School Education.** An analysis of the organization and administration of junior high school curricula. The place of geography in the social studies program.

Half course, first semester. Tu., Th., S., 9. To be omitted 1935-36.

Mr. Ridgley

Education 29b (Geography 29b). **Geography in Education.** A survey of geography in the present-day American school system, including elementary and secondary schools, teacher-training institutions, colleges

and universities. Prerequisite, geography courses totaling at least 12 semester hours.

Half course, second semester. Tu., Th., S., 8. Mr. Ridgley

Education 313a (Psychology 313a). Advanced Educational Psychology: Group Methods of Experimentation. The purpose of the course will be primarily to give practice in the most valuable statistical methods for educational and psychological experimentation.

Two hours, first semester. Tu., 4:20-6.

Mr. Jones

Education 314b (Psychology 314b). Advanced Educational Psychology: Tests and Measurements. A systematic and critical survey of psychological and educational tests. Both theoretical and applied aspects of testing will receive consideration.

Two hours, second semester. Tu., 4:20-6.

Mr. Jones

Date of Registration

The date of registration for first semester courses is September 24; that for second semester courses is February 3.

Inquiries

All inquiries and application for admission should be sent to the Chairman of the Committee on Courses in Education.

Committee: PHILIP H. CHURCHMAN
ROBERT S. ILLINGWORTH
DOUGLAS C. RIDGLEY
VERNON JONES, *Chairman*

COURSES IN EDUCATION*

201a. Educational Psychology. (Formerly Education 14) A study of psychology as it bears upon the problem of Education.

Two hours, first semester. F., 4-6.

MR. JONES

202b. Individual Differences and Educational Adjustments. (Formerly Education 15) The course will include a study of the bright, the dull, the psychoneurotic, and the delinquent child. School discipline will also be considered.

Two hours, second semester. F., 4-6.

MR. JONES

203a. Philosophy of Education. (Formerly Education 17) A survey of the philosophy of education as it bears upon modern trends and developments in teaching and school administration.

Two hours, first semester. Tentatively scheduled M., 4-6.

INSTRUCTOR TO BE ANNOUNCED

204b. The Teaching of Modern Languages. (Formerly French 101) A study of the major problem in the teaching of French. Incidental references will be made to German and Spanish. Pre-requisite, third-year college French or German course, taken previously or at the same time.

Two hours, second semester. W., 4-6.

MR. CHURCHMAN

205a. The Teaching of English. (Formerly English 144) Methods of teaching poetry, drama, novel, short story, oral and written composition.

Two hours, first semester. M., 4-6.

MR. ILLINGWORTH

Sociology 27. Educational Sociology. A study of Education (organized and unorganized) and intellectual leadership in their relationships to politics, government, the family, religion, patriotism, business cycles and other socio-economic phenomena. Education in the United States as it is and as it may be, will receive particular attention.

Divisible course.

Two hours, through the year. M., 2-4.

MR. BALSAM

PRIMARILY FOR GRADUATE STUDENTS

308a. Principles of Secondary Education. (Formerly Education 16) A survey of the aims, responsibilities, and general methods in secondary education.

Two hours, first semester. Th., 4-6.

MR. JONES

*Beginning September, 1936.

309b. History of Education and Comparative Education. A historical and comparative survey of the educational theories and systems in England, Germany, France, and the United States. Special attention will be given to those problems and policies at home and abroad which have had greatest significance for modern education.
Two hours, second semester. M., 4-6.

INSTRUCTOR TO BE ANNOUNCED

310a. Education for Character and Citizenship. (Formerly Education 19) A survey and critical evaluation of the experimental evidence in the fields of psychology and education and its application to character and citizenship training in junior and senior high schools.
Two hours, first semester. S., 11-1. MR. JONES

311b. Educational Guidance. (Formerly Education 13) A survey of the main points of view and techniques of educational diagnosis and guidance in the junior and senior high school.
Two hours, second semester. S., 11-1. MR. JONES

313a. Advanced Educational Psychology: Group Methods of Experimentation. The purpose of the course will be primarily to give practice in the most valuable statistical methods for educational and psychological experimentation.
Two hours, first semester. Tu., 4-6. MR. JONES

314b. Advanced Educational Psychology: Tests and Measurements. A systematic and critical survey of psychological and educational tests. Both theoretical and applied aspects of testing will receive consideration.
Two hours, second semester. Tu., 4-6. MR. JONES

315a. Apprenticeship Teaching. An informal course consisting of extensive apprenticeship work in the field or fields in which the student plans to teach. Individual supervision to be given by critic teachers in cooperating schools.
Two hours. Time to be arranged individually with each student.

CRITIC TEACHERS AND MR. JONES

316a. Geography in Education. A critical examination of the objectives in teaching geography at the various stages in elementary and high schools as well as in teacher-training institutions and liberal arts colleges. The contribution which geography should make in the study of history, economics, social problems, current events, and international relations. Some attention will be given to the selection and organization of material and the technique of class-room procedure. Prerequisite of 12 semester hours of college work in geography or its equivalent.

Two hours, first semester. Tu. 4:20-6. MR. ATWOOD, SR.

DEPARTMENT OF ENGLISH

PROFESSOR AMES, PROFESSOR DODD, ASSOCIATE PROFESSOR
ILLINGWORTH, MR. OLSON

Prescribed work in English consists of English 11, required of all freshmen, and an additional course of English literature or composition, to be completed by the end of the junior year. A *major* in English consists of four courses, exclusive of English 11; a *minor*, of three courses, exclusive of English 11. For students who major in English courses 13, 15 and 111 are prescribed. Either course 15 or course 111 should be taken in the sophomore year.

The Appreciation of the Fine Arts, given by Professor Dodd, is a requirement for all students, to be completed in either the freshman or the sophomore year. This course is not counted in fulfillment of requirements in English.

THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department of English for the best poem by an undergraduate. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

COURSES IN ENGLISH

1. PRIMARILY FOR UNDERGRADUATES

11. English Composition. The aim of the course is to improve expression in writing and to increase appreciation of literature through weekly practice in writing, particularly in expository writing, and through collateral reading.

Required of freshmen.

Through the year. Tu. Th. S., 11.

MR. ILLINGWORTH AND MR. OLSON

A student who has received a grade above B+ in the first semester of English 11 may substitute for the second semester of the course any second semester course in English literature or composition elective for sophomores.

12a. Public Speaking. A course in the composition and delivery of speeches and practice in impromptu speaking. The aim of the course is to train the student to think logically and to speak simply and effectively when on his feet.

Half course, first semester. Tu. Th. S., 9. MR. ILLINGWORTH

[143b. Argumentation and Debate. A systematic study of the principles and practice of argumentation.

Half course, second semester. M. W. F., 9. MR. ILLINGWORTH]

142. The English Novel. First semester, a survey of the English novel from its beginnings to Thomas Hardy. Second semester, a study of the novel from the beginning of the twentieth century to and including the present year.

Through the year. Tu. Th. S., 8. MR. ILLINGWORTH

13b. Shakespeare. A general survey of Shakespeare's works, including the reading and class discussion of ten plays. Elective for juniors and seniors.

Half course, second semester. M. W. F., 9. MR. AMES

15. A Survey of English Literature. A course in English literature from its beginning to the end of the eighteenth century. Elective for juniors and seniors.

Through the year. M. W. F., 10. MR. AMES

[16b. English Composition. Open to students who have attained high standing in English 11.

Half course, second semester. Tu. Th. S., 10. MR. AMES]

[18b. The Bible as Literature. Elective for juniors and seniors.

Half course, second semester. Tu. Th. S., 10. MR. AMES]

110a. Nineteenth Century Poetry. A study of English poetry from Wordsworth to Masfield. Elective for juniors and seniors.

Half course, first semester. Tu. Th. F., 12. MR. AMES

111. American Literature. Readings in American Literature, from the Colonial period to the present day. The course may be elected for the year or for the first semester only. Elective for juniors and seniors.

Through the year. Tu. Th. S., 10. MR. AMES

[112a. Nineteenth Century Prose. English essayists from Lamb to Stevenson. Elective for juniors and seniors.

Half course, first semester. Tu. Th. S., 12. MR. AMES]

[113b. **English Drama.** From the mysteries and moralities to Barrie, Shaw and Galsworthy.

Open to freshmen.

Half course, second semester. Tu. Th. S., 9. MR. DODD]

114a. **Elizabethan Drama.** The plays by Shakespeare's distinguished contemporaries and his successors of the Restoration.

Half course, first semester. Tu. Th. S., 9. MR. DODD

[121a. **Biography and Letters.** The biography, autobiography and correspondence of distinguished authors, painters and sculptors, from the eighteenth century to the present. This course is open only to upper classmen who are proficient in English.

Half course, first semester. M. W. F., 9. MR. DODD]

122b. **Modern Poetry.** A study, in representative contemporary poets, of the new tendencies in verse. Opportunity is afforded for original verse composition. Open only to upper classmen who are proficient in English.

Half course, second semester. Tu. Th. S., 9. MR. DODD

124b. **American Drama.** A study of the American drama from colonial times to the present.

Open to freshmen.

Half course, second semester. M. W. F., 10. MR. DODD

125b. **The Short Story.** Representative short stories in English and American literature.

Open to freshmen.

Half course, second semester. M. W. F., 9. MR. DODD

[126b. **Modern Continental Drama.** A companion course to Modern English Drama.

Half course, second semester. Tu. Th. S., 9. MR. DODD]

130b. **Seminar Course in the Realistic Movement of American Literature.** English 111 or the permission of the instructor is required.

Half course, second semester. Hours to be arranged. MR. OLSON

FINE ARTS

1a. **Fine Arts.** A course in the appreciation of painting, sculpture and architecture. Illustrated lectures, assigned readings, field trips. This course is not counted in fulfillment of the requirement in English.

Half course, first semester. M. W. F., 9. MR. DODD

DEPARTMENT OF GEOGRAPHY

A complete statement of the aims and the scope of the offerings in geography will be found in the announcement of the Graduate School of Geography.

DEPARTMENT OF GEOLOGY

PROFESSOR LITTLE

1. PRIMARILY FOR UNDERGRADUATES

12. General Geology. A study of the origin of scenery, the classification of rocks, the structure of the earth, the geography of the past, and the evolution of life. Three recitations and one laboratory period or field trip weekly. (The laboratory period will be utilized in the manner deemed most advantageous by the instructor.) Attendance on one out-of-town field trip lasting two days or more is required.

Indivisible course.

Through the year. M. W. F., 8; Th., 2.

MR. LITTLE

The following courses are offered occasionally on special request of four or more students.

121b. Crystallography, Mineralogy, and Blowpipe Analysis. An elementary course on the identification of minerals by their geometrical, physical and chemical properties. Two class meetings and one laboratory period weekly. General geology is not a prerequisite for this course.

Half course, second semester.

MR. LITTLE

[122b. Economic Geology. A study of the origin of the deposits of useful minerals and a discussion of their more important occurrences throughout the world. Elementary chemistry and geology provide a desirable preparation for this course. Two class meetings and one laboratory period weekly. Geology 121 is a prerequisite for this course.

Half course, second semester.

MR. LITTLE]

DEPARTMENT OF GERMAN

ASSOCIATE PROFESSOR BOSSHARD, ASSISTANT PROFESSOR JANTZ

The Department of German provides courses for the fulfillment of the general requirement in foreign languages as well as for the completion of a major, or minor in German. The courses numbered 11, 12, 13 are regular courses leading up to a good reading knowledge. German 131, "Practice in Speaking and Writing German," is a

course preparing especially for advanced work in literature, and for teaching. Credit will be given for only one of the two courses: German 13 and 131. Courses designated as "advanced courses in literature," numbered 15, or higher, have as a prerequisite: German 131, or an achievement test in reading, writing and oral use of the language. Students taking the regular third year course, German 13, will find themselves sufficiently prepared for advanced courses, if they do superior work. A *major* in German consists of four courses, exclusive of "Elementary German"; a *minor* of any three courses. German 14, Introduction to the Culture of Germany, will be counted toward the completion of a *major* in conjunction with at least one advanced course in literature, and toward a *minor* in conjunction with either German 13 or German 131.

COURSES IN GERMAN

ELEMENTARY COURSES

11. Elementary German. (Two *independent* classes designated as 11A and 11B.) Vocabulary drill, pronunciation and grammar; composition, reading of easy prose.

Indivisible course. Open to freshmen.

Through the year. M. W. F., and Tu. Th. S., 9. MR. BOSSHARD

12. Second Year German. Reading, thorough review of grammar essentials, exercises in composition. Prerequisite: German 11.

Open to freshmen.

Through the year. Two sections, Tu. Th. S., 9 and 12.

MR. JANTZ

13. Third Year German. Extensive reading, chiefly in modern literature, grammar review, composition. Prerequisite: German 12.

Open to freshmen.

Through the year. Tu., Th., S., 8.

MR. JANTZ

131. Practice in Speaking and Writing. Extensive reading of modern German literature; speaking and writing. After the month of October the course is conducted in German. Prerequisite: Satisfactory work in German 12.

Open to freshmen.

Through the year. Tu. Th. S., 11.

MR. BOSSHARD

14. Introduction to German Culture. An illustrated lecture course on the cultural development of the German speaking peoples: on their history, folk lore, art, music, and literature. The regular weekly lectures will take place at the Worcester Art Museum, and will be supplemented by the illustrative material available there:

books, color prints, photographs, and phonograph records. In addition the Museum will provide four to six current German sound films and selected shorter films. For college students there will be an additional class meeting once a week at the University in two sections: (1) for students desiring to take the course for credit in Division B (Social Science), in which case all the reading and reports will be in English and credit will not be given in Division C (foreign language); (2) for students with adequate background in German (three years or the equivalent) desiring to take the course for language credit, in which case a large part of the reading will be in German.

Through the year. At the Art Museum. Tu., 4:15-5:55; additional hour to be arranged. MR. JANTZ AND MR. BOSSHARD

ADVANCED COURSES IN LITERATURE

[151. **Classical and Nineteenth Century German Drama.** Reading and discussion of select plays of Lessing, Goethe, Schiller, Kleist, Hebbel, Wagner, Hauptmann, and others.

Through the year.

MR. JANTZ]

[152. **The German Novel of the Nineteenth and Twentieth Centuries.** Select novels, and novellen from the Romantic period to the present.

Through the year.

MR. JANTZ]

[153. **Contemporary German Literature.** Lectures, readings. In the first semester the course will be conducted largely in English, but in the second in German.

Through the year. M. W. F., 11.

MR. BOSSHARD

[161a. **Lyric Poetry.** A survey of representative German lyric poetry.

Half course, first semester. Tu. Th. S., 11.

MR. BOSSHARD

[162b. **Goethe's Faust.** A study of this Drama, its message, and of the poet's own development and the evolution of the literary and philosophic currents of his time.

Half course, second semester. W. Th. F., 12.

MR. BOSSHARD

[17. **Survey of German Literature.** Lectures, readings, and assigned topics in German literature from the beginnings to the present, against a background of Germany's historical development.

Through the year. Tu. Th. S., 11.

MR. JANTZ

181. **Advanced Studies in Goethe's Faust.** Mr. Bosshard is ready to direct competent students who propose plans for special studies in Goethe's Faust. Prerequisite: 162b.

182. Advanced Reading in German Philosophy. A brief general introduction to philosophy in general. Reading chiefly of modern German philosophers. Offered each year to qualified students as a private conference course.

Through the year.

MR. BOSSHARD

19. Seminar for Honor Students.

MR. BOSSHARD AND MR. JANTZ

DEPARTMENT OF HISTORY AND INTERNATIONAL RELATIONS

PROFESSOR BLAKESLEE, ASSOCIATE PROFESSOR LEE, ASSOCIATE
PROFESSOR JORDAN, ASSISTANT PROFESSOR BILLINGTON

UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give in its several courses a broad knowledge of the more significant aspects of the growth of the leading countries of the world. This includes the study not only of the important facts, but more especially of the processes of development in government, diplomacy, society, business, religion, science, and education.

History 11, primarily for freshmen, is open to members of all classes and is prerequisite for all other courses taken by "majors" or "minors" in this department. Students who wish merely to fulfill the college requirement in "Division B" or to take a single course in this department for general cultural purposes may, *after the freshman year*, elect any other course whose number begins with (1) without having previously completed History 11. Any course whose number begins with (2) must be preceded by History 11 and a second course whose number begins with (1). The choice of this second course will depend upon the special interest of the student.

Exceptions to these rules may be made only with the approval of the department.

GRADUATE WORK

The distinctive feature of the graduate work is the emphasis it places upon the various aspects of international relations. Without neglecting investigation in the economic, political, and social life of preceding centuries, it stresses the study of the problems and the difficulties constantly arising in the international relations and diplomacy of the family of states. The field includes not only the

United States and the nations of Europe, but also the newer and rapidly developing states of Asia, Latin America, and Africa.

THE DOCTORATE

The various courses offered in the department are so arranged, in cycles of two or three years, that students working for their doctorate will be enabled to secure a full program each year.

A feature of the method of instruction in the department is the frequent informal conferences between instructor and student, and the Seminar method in many of the courses.

The following courses in related departments may advantageously be taken to supplement major work in the Department of History and International Relations: Geography of North America (Geog. 181b); Geographic Aspects of United States Foreign Trade (Geog. 362b); General Principles of Human Geography (Geog. 37a); Geography of Europe (Geog. 375); Caribbean America (Geog. 383b); South America (Geog. 384a); Economic History (Ec. 14); International Economic Policies (Ec. 31); Social Psychology (Psy. 311).

GOVERNMENT AND POLITICAL SCIENCE

The following courses, given in the Department of History and International Relations, are frequently listed under a separate Department of Government and Political Science.

History 12. European and American Governments.

History 18. A Survey of International Relations.

History 231. International Law.

History 205. History of Political Thought.

History 30. Problems in International Relations.

History 33. Foreign Relations of the United States.

History 313a. Constitutional History of the United States.

COURSES IN HISTORY AND INTERNATIONAL RELATIONS

1. PRIMARILY FOR UNDERGRADUATES

11. Introduction to the History of Europe. The course covers the period from the fall of Rome to the present time, and serves as a general introduction to further historical study. Indivisible course.

Open to freshmen. See departmental announcement above.

Through the year. Tu. Th. S., 10.

MR. LEE

[12. **European and American Governments.** The first semester will give a description of the leading Governmental systems of Europe; the second will deal with the Government and politics of the United States.

Through the year. A divisible course. Tu. Th. S., 11.

MR. LEE AND MR. BILLINGTON]

15. **History of England.** A general course forming a background for American history and an introduction to an understanding of Britain's place in the present world. Lectures, text-book, collateral reading and quizzes.

Through the year. M. W. F., 10.

MR. JORDAN

17. **American History Since 1783.** After a brief survey of the American Revolution, the course will treat carefully the period since 1783. Divisible only in special cases with the approval of the department.

Through the year. Tu. Th. S., 9.

MR. BILLINGTON

[18. **A Survey of International Relations.** A general survey of the whole field of international relations which will furnish a foundation for further and more specialized work.

Through the year. M. W. F., 9.

MR. BLAKESLEE]

[117 (Greek 17). **Greek History.** This course will cover the period from the beginnings of Greek History to 146 B. C.

Open to freshmen with the consent of the instructor.

Through the year. M. W. F., 11.

MR. BRACKETT]

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

20. **Europe Since 1848.** The internal and external development of the major European nations with special emphasis on the period from 1870 to the present. History 15 in addition to History 11 desirable as a prerequisite.

Through the year. Tu. Th. S., 11.

MR. LEE

22. **The Pacific and the Far East.** The course deals especially with China, Japan, Russia in Asia, and the islands of the Pacific.

Through the year. M. W. F., 10.

MR. BLAKESLEE

231. **International Law.** A general course adapted for advanced students who will do a large amount of outside reading.

Through the year. M. W. F., 10.

MR. BLAKESLEE

24b. **Modern France.** The course, beginning with the period of the Renaissance, surveys with greater detail than is possible in History 11 the history of France to 1815.

Half course, second semester. Tu., 3-5 and a third hour to be arranged.

MR. LEE

25b. British India. A survey of European rivalry in India, the work of the East India Company, the development of administration by the crown, and recent developments toward self-government.

Half course, second semester. W., 3-5 and a third hour to be arranged.

[26. England Since 1760. A general course, stressing the political, economic and social development of the modern commonwealth.

Through the year. M. W. F., 9.

MR. JORDAN]

[27. Latin America. A survey of the history of the various Latin American countries with emphasis upon the relations with the United States.

Through the year.

MR. BLAKESLEE]

[28. History of the British Empire. Most of the course will deal with developments and problems since 1870.

Through the year. M. W. F., 9.

MR. JORDAN]

[29b Russia. The aim of this course is to present Russian internal development from the origin of the Kievan state to the present time with special emphasis on the revolution of 1917 and the Soviet régime since that date.

Half course, second semester. Tu. Th. S., 12.

MR. LEE]

[201. Social and Intellectual History of the United States. The evolution of American life from the Revolution to the present day, with emphasis upon the social customs, economic influences, racial contributions, religious beliefs, and humanitarian movements.

Through the year. Tu. Th. S., 10.

MR. BILLINGTON]

205. History of Political Thought. An historical course, in which the development of thought is stressed rather than the theories of individual writers.

Through the year. M. W. F., 11.

MR. JORDAN]

[241a. The United States Since 1876. A synthesis of the political, social and economic forces in the development of the United States since the reconstruction. Prerequisite, History 17 or its equivalent.

Half course, first semester.]

242. American Colonial History to 1789. The European background of American history, the colonial period, and the American Revolution. Prerequisite, History 17 or its equivalent.

Through the year. Tu. Th. S., 10.

MR. BILLINGTON]

3. PRIMARILY FOR GRADUATE STUDENTS

[30. **Problems in International Relations.** An intensive study of present outstanding problems, especially those which involve the policies, interests, and obligations of the United States.

Two hours, through the year. M., 3-5. MR. BLAKESLEE]

[32. **Recent International Relations of the United States.** A lecture and research course covering the period from the Civil War to the present.

Two hours, through the year. MR. BLAKESLEE]

[33. **Foreign Relations of the United States.** The history of the foreign relations of the United States from 1783 to the present.

Two hours, through the year. M., 3-5. MR. BLAKESLEE]

[305b. **Topics in the History of Political Thought.** A study of selected men and movements of the nineteenth and twentieth centuries.

Two hours, second semester. W., 3-5. MR. JORDAN]

[313. **Constitutional History of the United States.** The Constitution is treated as a growing organism, responsive to the changing political, social and economic conditions of the country.

Two hours, through the year. Tu., 3-5. MR. BILLINGTON]

[320. **England Since 1830.** Students will be expected to read widely and to undertake a small amount of individual research.

Two hours, through the year. M. W., 4. MR. JORDAN]

35a. **Tudor and Stuart England.** A survey, for mature students, of the period from 1485 to 1688.

Two hours, first semester. W., 3-5. MR. JORDAN]

[322a. **Selected Topics in Recent British History.** Aspects of the period since 1815 will be dealt with but the ground covered will change somewhat from year to year.

Two hours, first semester. W., 3-5. MR. JORDAN]

[331. **European International Relations Since 1870.** A study of the diplomatic history of Europe from the Congress of Berlin to the Locarno agreements, 1925.

Two hours, through the year. Th., 3-5. MR. LEE]

[333. **Topics in the Recent and Contemporary History of Continental Europe.** The course will consist chiefly of research by the individual student in problems confronting the European countries at the present day.

Two hours, through the year. Th., 3-5. MR. LEE]

38a. Post-War Europe. The emphasis in this course is upon international affairs affecting the European powers since 1918, although some attention is paid to internal developments in the more important states.

Two hours, first semester. Tu., 3-5.

MR. LEE

342. The Influence of Westward Expansion in American Development. The westward movement from colonial times to the passing of the frontier will be discussed in detail.

Two hours, through the year. Th., 3-5.

MR. BILLINGTON

351. Research in the International Relations of the United States.

MR. BLAKESLEE

352. Research in the International Relations of the Pacific and the Far East.

MR. BLAKESLEE

353. Research in the History and International Relations of the British Empire.

MR. JORDAN

354. Research in the History and International Relations of Continental Europe.

MR. LEE

355. Research in the History of the United States.

MR. BILLINGTON

37. Research in the Diplomacy of the Far East Since 1900.

Two hours, through the year. M., 3-5.

MR. BLAKESLEE

36. Seminar. The students in the department meet each week to study particular topics in international relations and to consider the results of investigation carried on in the department.

Weekly, through the year. Tu., 7.

MESSRS. BLAKESLEE, LEE, JORDAN, AND BILLINGTON

MATHEMATICS

See announcement of the Department of Physics and Mathematics.

DEPARTMENT OF PHYSICS AND MATHEMATICS*

PROFESSOR GODDARD,† ASSOCIATE PROFESSOR MELVILLE, ASSOCIATE
PROFESSOR ROOPE, ASSISTANT PROFESSOR CADY

UNDERGRADUATE WORK IN PHYSICS

The aim of the undergraduate work in physics is to give to students a knowledge of the principles which are at the basis of modern applications of science to human affairs. It is deemed equally desirable to impart a knowledge of the methods and results of modern physics which are influencing so profoundly our fundamental concepts and without which no one may hope to be considered liberally educated. The department aims also to fit students with professional preparations for chemistry, meteorology and allied sciences, medicine, engineering and science teaching, as well as for professional or graduate work in physics.

GRADUATE WORK IN PHYSICS

The department is prepared to accept candidates (in physics only) for the degrees of Doctor of Philosophy and of Master of Arts. Emphasis is placed not only upon mathematical physics but also upon the completion of an original research problem for which work the laboratories and library provide unusual facilities.

Graduate students in physics whose minor is in mathematics may arrange for a special course in applied mathematics based, for the degree of Master of Arts, on Mellor's *Higher Mathematics for Students of Chemistry and Physics*.

UNDERGRADUATE WORK IN MATHEMATICS

Courses in mathematics are offered at the undergraduate level only. Freshman mathematics is offered in two courses; one for those who expect to "major" in physics, chemistry or biology; the other for those who expect to "major" in mathematics or who choose the course as an elective. A second year of general mathematics is offered to those who complete either of the freshman courses. In addition, Mr. Melville offers such advanced courses, or courses in

*Since September, 1933, the Department of Mathematics has been combined with the Department of Physics, with Professor Goddard as chairman of the combined departments.

†Absent on leave, 1935-36.

applied mathematics, as may be required from time to time, depending on the interests of the students.

COURSES IN PHYSICS

1. PRIMARILY FOR UNDERGRADUATES

11. General Physics. During the first semester, the work covers mechanics and heat, and during the second semester, electricity and magnetism, wave motion, sound, and light. The textbook is Duff's *General Physics*. Mathematics 110 or 111 is advised, but not required. Indivisible course.

Open to freshmen.

Through the year. M. W. F., 10; W. or Th. 2. MR. ROOPE

[13. History of Physics. A conference course on the history of the various branches of Physics. This course is not accepted as part of a *major* or a *minor*. Prerequisite, Physics 11.

Through the year. MR. GODDARD]

14. Mechanical and Electrical Measurements. During the first semester this course consists of electrical measurements with advanced problems in optics. In the second semester the course consists of laboratory exercises in dynamics, followed by advanced problems in heat.

Through the year. Tu. W. F., 2. MR. CADY

15a. Thermodynamics. This course includes a study of the thermal properties of the solid, liquid, and gaseous states, the laws of thermodynamics, and the theory of heat engines. Prerequisite, Physics 11.

Half course, first semester. M. W. F., 9. MR. ROOPE

15b. Optics. Geometrical and physical optics including work in practical photography. The textbook is Houston, *A Treatise on Light*. Prerequisite, Physics 11.

Half course, second semester. M. W. F., 9. MR. ROOPE

17. Introduction to Modern Physics. An elementary treatment of physical experiment and theory of the past fifty years, with emphasis on the more recent atomic developments.

Through the year. M. W. F., 10. MR. CADY

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

22. Theoretical Mechanics. This course is a systematic presentation of theory together with the solution of problems. The textbook is Crew and Smith, *Mechanics for Students of Physics and Engineering*. Mathematics 12 must be taken before or with this course.

Through the year. M. W. F., 8. MR. ROOPE

[23. **Theory of Electricity and Magnetism.** This course treats the general principles of dynamo and motor design, high-frequency phenomena and the electron theory of matter. The prerequisites are Physics 11 and Mathematics 110 or 111; Mathematics 12 must be taken before or with this course. A knowledge of differential equations is desirable. The textbook is Starling's *Electricity and Magnetism*.

Through the year.

MR. CADY]

[27. **Preliminary Mathematical Physics.** This course involves reading on specially assigned topics. The object is to provide a comprehensive background for advanced work in physics. Open to undergraduate majors in physics of high standing.

Through the year.

MR. ROOPE]

[28a. **Laboratory Methods.** A course in the methods of preparing and presenting the results of experiments and the preparation by each student of a report on at least one assigned topic that involves reference tables and literature. Prerequisite, Physics 11.

Half course, first semester. M. W. F., 10.

MR. ROOPE]

216. **Seminar.** Open to all physics students. Occasional meetings. No credit.

THE STAFF OF THE DEPARTMENT

3. PRIMARILY FOR GRADUATE STUDENTS

34. **Advanced Mechanics.** This course includes vector analysis, the equations of Lagrange and Hamilton, the methods of Hamilton and Jacoby, and Newtonian and logarithmic potential functions together with a discussion of applications to various branches of physics.

Three hours, through the year. Tu. Th. S., 10.

MR. CADY

35. **Advanced Electricity and Magnetism.** The theory of electricity and magnetism is treated from the classical and the modern viewpoints.

Three hours, through the year. Tu. Th. S., 11.

MR. ROOPE

[36. **The Partial Differential Equations of Mathematical Physics.** Included in this course are vector analysis, the methods of Cauchy and Fourier, developments in series, the methods of Green and Riemann-Volterra, normal functions, and integral equations.

Two hours, through the year.

MR. GODDARD]

37. **Research Work in Physics.** Research work on an original problem in physics. Required of candidates for the master's degree.

MR. ROOPE

- [311. **Methods of Mathematical Physics.**
Three hours, through the year. MR. GODDARD]
- [312. **Theory of Elasticity and Dynamics of Fluids.**
Three hours, through the year. MR. GODDARD]
- [313. **X-Rays.**
Three hours, through the year. MR. ROOPE]
- [314. **Tensor Calculus with Applications in Physics.**
Three hours, through the year. MR. ROOPE]
- [315. **Research Work in Physics.** Research work on an original problem in physics. Required of candidates for the degree of Doctor of Philosophy. MR. GODDARD]
- [316. **Seminar and Research Conference.** A seminar on modern theories of physics, together with conferences on current literature and on the researches in progress.
Once a week, through the year. W., 4-6.

THE STAFF OF THE DEPARTMENT]

317. **Selected Topics in Modern Physics.**
Three hours, through the year. F., 2-5. MR. CADY
- [318. **Relativity and Wave Mechanics.**
Three hours, through the year. M., 2-5. MR. ROOPE]

COURSES IN MATHEMATICS

110. **General Mathematics.**—For students who do not intend to “major” in physics, chemistry or biology. Algebra, trigonometry, graphics, simple differentiation and integration. Students who have not studied algebra since the first year of high school are advised not to register for this course.

Open to freshmen.

Through the year. Tu. Th. S., 8. MR. MELVILLE

111. **General Mathematics.**—for students who intend to “major” in physics, chemistry or biology.

Open to freshmen.

Through the year. M. W. F., 8. MR. CADY

12. **Second Year Course.** Analytical Geometry, Differential and Integral Calculus. Continuation of Mathematics 110.

Through the year. M. W. F., 8. MR. MELVILLE

13. **Advanced Calculus and Differential Equations.** Text, Griffin, *Mathematical Analysis, Higher Course.*

Through the year. M. W. F., 9. MR. MELVILLE

[113a. **The Mathematics of Statistics.** The mathematical foundations of the formulas and measures of elementary statistical procedure.
Half course, first semester. MR. MELVILLE]

[118a. **Elementary Surveying.** Text, Raymond, *Plane Surveying*.
Half course, first semester. MR. MELVILLE]

15a. **Advanced Algebra and Theory of Equations.**
Half course, first semester. Tu. Th. S., 10. MR. MELVILLE

16b. **Selected Topics in Analytical Geometry in Two and Three Dimensions.**
Half course, second semester. Tu. Th. S., 10. MR. MELVILLE

DEPARTMENT OF PSYCHOLOGY*

PROFESSORS MURCHISON AND HUNTER, ASSOCIATE PROFESSOR

JONES AND ASSISTANT PROFESSOR GRAHAM.

Also PROFESSOR HOAGLAND of the *Department of Biology*.

LABORATORY FACILITIES

The psychological laboratories occupy thirty-two rooms on the third floor of the main building of the University. These laboratories were established by G. Stanley Hall immediately after the founding of Clark University, and constituted the first adequately appointed psychological laboratories in America. These laboratories, under the direction of Edmund C. Sanford and John W. Baird, increased rapidly in size and in research possibilities. The collection is rich in historical apparatus, an example being the vernier chronoscope which was invented and developed here by Edmund C. Sanford. The laboratories have an annual appropriation sufficient to provide for the purchase and manufacture of any apparatus that may be required for general and special investigations. Four dark-rooms, with special apparatus and facilities for research in the neural correlates of vision, have recently been added. The animal laboratory has recently been enlarged and better equipped.

UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give as broad a knowledge as possible of the more significant aspects of psychology. This includes courses leading to graduate work in

*The Department of Education and School Hygiene was merged with the Department of Psychology at the beginning of the year 1926-27. Beginning September, 1936, the Department of Education will again be reconstituted as a separate department.

psychology and also courses involving the application of psychological principles to education.

Students majoring in the department will be divided into three groups: first, those who plan to do graduate work in psychology, second, those interested in general psychology but not contemplating graduate work at Clark University, and third, those interested in educational psychology and education. The requirements for each of these classes are somewhat different. For the first class, the requirements are: Psychology 11 and 12, the equivalent of a course whose number begins with (2), an additional course in the department, a general college course in each of the following: biology,* chemistry, physics, mathematics, and two years of French or German. For the second class the requirements are: Psychology 11 and 12, the equivalent of a course at the 200 level, and an additional course in the department. For students majoring in educational psychology, the requirements are: Psychology 11, the equivalent of two courses from 14a, 15b, 16b, 17b, and 19a, and an additional course in psychology or education on the advice of the instructor in educational psychology.

Students taking courses in educational psychology to satisfy state requirements for teachers' certificates, and not majoring in the department, are not required to take Psychology 11.

GRADUATE WORK

NOTE: Candidates for the degree of Doctor of Philosophy have usually been encouraged to "minor" in biology. However, other minors may be arranged. In whatever department the student chooses to "minor" it will be required, of course, that he satisfy the prerequisites and other requirements of that department, and it is desirable that all such prerequisites be satisfied before beginning work for the doctorate.

Admission. Admission to graduate work in psychology, as in other departments, is subject to the approval of the Graduate Board. However, the Graduate Board does not admit without the approval of the department. Admission is open to those individuals who have been graduated from accredited institutions, and whose academic record gives promise of the successful conduct of graduate work.

Courses. Students who come well prepared for beginning graduate work, i.e., with adequate training in elementary psychology supplemented by satisfactory training in allied fields and reading

*Biology 11, on approval of the Department of Psychology, may be accepted as a psychology course.

knowledge of French and German, may expect to devote nearly all their time during the first year to advanced course-work. Such students will need to devote about half their time to course-work during their second year, and may expect to give the major part of their time to research after the second year.

The Master's Degree. The general University requirements for the master's degree are explained elsewhere in the catalogue. The department will supplement these requirements in individual cases where it seems wise to do so. Students planning to become candidates for the master's degree, such degree to be conferred at some definite future time, should confer with members of the staff as early as possible in order that a suitable thesis subject and program may be determined upon.

The Doctor's Degree. Only graduate students with superior records are encouraged to become candidates for the doctor's degree. Not only is such a candidate required to obtain exact information concerning all the significant psychological methods of research, but he is also required to demonstrate actual ability to use one or more of these methods in original research. The research for the doctor's degree will usually extend over a two-year period.

Theses. In addition to the general university requirements concerning the preparation and delivery of theses, the department has a supplementary requirement of an additional copy of each thesis, as well as a suitable photograph of the author, to remain on file in the department.

COURSES IN PSYCHOLOGY

1. PRIMARILY FOR UNDERGRADUATES

11. General Psychology. A general introduction to the study of human behavior from the genetic and experimental points of view. Prerequisite sophomore standing. Indivisible course.

Through the year. Tu. Th. S., 9.

MR. HUNTER AND MR. GRAHAM

101a. History of Psychology. This course includes a great deal of the history of scientific method and of philosophy, and the history of psychology is developed against that more general background.

Half course, first semester. M. W. F., 11.

MR. MURCHISON

Not to be offered in 1936-37.

102b. Social Psychology. The students are made acquainted with most of the serious methods of analyzing social behavior, and are kept in touch with the experimental work on social behavior that is being done in the Clark laboratories.

Half course, second semester. M. W. F., 11. MR. MURCHISON
Not to be offered in 1936-37.

[103. **History of Modern Philosophy and the Development of Scientific Method.** This course is intended as a cultural contribution to those students who desire an introduction to the great philosophical systems that have influenced the intellectual life of Europe and America since the sixteenth century. There will be special emphasis on the gradual emergence of scientific method from the logic and problems of philosophy, many of these examples being selected from the history of experimental psychology. Open to all students except freshmen.

Through the year. M. W. F., 11. MR. MURCHISON]
New course, to be offered in 1936-37.

12. Experimental Psychology. Students will be made familiar, by use, with the apparatus used in psychological investigations. Admission by consent of instructor.

Through the year. Tu. Th., 2-5. MR. GRAHAM

13b. (Education 13b). Guidance in Secondary Schools. A survey of the principles of educational diagnosis and guidance as applied to secondary school students.

Half course, second semester. W., 11 and 12; F., 11. MR. JONES

14a. (Education 14a). Educational Psychology. A study of psychology as it bears upon the problems of education.

Half course, first semester. W., 11 and 12; F., 11. MR. JONES

15b. (Education 15b). Individual Differences and Exceptional Children. The course will include a study of the bright, the dull, the psychoneurotic, and the delinquent child. (Graduate students may register for two hours' credit, and attend only the Saturday meetings.)

Half course, second semester. Th., 11; S., 11 and 12. MR. JONES

19a. (Education 19a). Psychology of Character. A survey and critical evaluation of the experimental evidence in the field and its application to education for character and citizenship.

Half course, first semester. Th., 11; S., 11 and 12. MR. JONES

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

[203a. **Reflex Activity.** Spinal, postural, and conditioned reflexes as components of behavior; the rôle of autonomic activity in conduct; emotional responses.

Two hours, first semester. Th., 4. MR. GRAHAM]

203b. Quantitative Interpretation. General principles used in quantitative treatment of psychological and physiological data. The problem of test of hypothesis by quantitative methods.

Two hours, second semester. Th., 4.

MR. GRAHAM

Offered in alternate years.

Biology 204. Seminar in the Structure and Function of Central Nervous Systems. (For description see announcement of Department of Biology.)

Biology 205. Seminar in Experimental Biology. (For description see announcement of Department of Biology.)

[**206. Animal Behavior.** I (first semester). A study of tropisms, instincts, and sensory processes with particular reference to the vertebrates. Prerequisite 2 courses, 11 and preferably 12.

II (second semester). A study of learning and the more complex behavior adaptations in infra-human animals. A continuation of the course given in the first semester, but not necessarily preceded by it. Prerequisites as for the course given in the first semester.

Two hours, through the year. Tu. Th., 10.

MR. HUNTER]

207a. The Learning Process. A critical and experimental study of the chief problems of learning and memory. Prerequisite 2 courses, 11 and, preferably, 12.

Half course, first semester. M. W. F., 10.

MR. HUNTER

To be omitted in 1936-37.

NOTE: By vote of the Graduate Board students interested in Education and Educational Psychology may, upon the approval of their major department, and through special arrangement with the instructor in the course, take courses in Education numbered 14a, 15b, and 19a for graduate credit.

3. PRIMARILY FOR GRADUATE STUDENTS

301b. Seminar in the Principles of Psychology. A comparative study of systems of psychology with particular reference to structuralism, functionalism, and behaviorism.

Two hours, second semester. M., 11-1.

MR. HUNTER

To be omitted in 1936-37.

304. Departmental Seminar in Theoretical and Experimental Psychology. Devoted to the study of selected topics in current psychological literature. Required annually of all students *majoring* in psychology for advanced degrees.

Through the year. W., 4.

THE STAFF OF THE DEPARTMENT

305. Research. Intended primarily for graduate students engaged in research for the doctor's degree.

THE STAFF OF THE DEPARTMENT

Biology 306. Mechanisms of Reaction. (For description, see announcement of Department of Biology.)

[310b. **Child Behavior.** This course will consist of a critical examination of the literature bearing on the experimental investigation of child behavior.

Two hours, second semester. F., 4.

MR. MURCHISON]

311. Social Psychology. I (first semester). A systematic survey of the literature of social behavior ranging from the group behavior of microscopic organisms to the complex phenomena of human culture groups.

II (second semester). The theory of measurement applied to social phenomena. Laboratory observations of social variables and their mathematical analysis. The experimental testing of social theory.

Two hours, through the year. F., 4.

MR. MURCHISON

313a. (Education 313a). Advanced Educational Psychology: Group Methods of Experimentation. The purpose of the course will be primarily to give practice in the most valuable statistical methods for psychological experimentation.

Two hours, first semester. Tu., 4:20.

MR. JONES

314b. (Education 314b). Advanced Educational Psychology: Tests and Measurements. A systematic and critical survey of psychological tests. Both theoretical and applied aspects of testing will receive consideration.

Two hours, second semester. Tu., 4:20.

MR. JONES

316. Receptive Processes. I (first semester). The functions of some of these various sense departments: vision, audition, smell, taste, pressure, pain, temperature, and kinesthesia.

[II (second semester). The functions of those sense departments not dealt with in the first semester. The full year program covers the field of sensory processes.]

Two hours, through the year. Th., 4.

MR. GRAHAM

DEPARTMENT OF ROMANCE LANGUAGES

PROFESSOR CHURCHMAN, ASSISTANT PROFESSOR DOUGHERTY

See the statement of the general requirement in foreign language, for all candidates for the A.B. degree in the announcement of the Undergraduate Division.

The French courses are planned with the following ends in view: French 11 and 12 are the basic language courses. To the student who has completed 12, courses 13 and 14 offer respectively an option

between a continuance of general language work and a course limited to translation and literature; both may be taken. Those who wish to continue the study of literature after taking 14 will take course 114, followed by the courses in which the literature is studied intensively; those interested primarily in the study of the language will take 13 and then 17. The latter being especially valuable for prospective teachers of French, for whom course 101a, The Teaching of Modern Languages, may also be of interest.

A major or a minor in Romance languages may be made up from any reasonable sequence of the courses on the level of 13 or 14 or above. French 11 and 12 and Spanish 11 may not be counted for a major or a minor without the consent of the Department.

COURSES IN FRENCH

1. PRIMARILY FOR UNDERGRADUATES

11. For Beginners. Emphasis on reading ability. Incidental aural, oral, and written work. Indivisible course.

Open to freshmen.

Through the year. M. W. F., 11.

To be omitted in 1935-36.

MR. CHURCHMAN

12. Intermediate. Extensive reading, exercises in composition and pronunciation. Prerequisites, French 11 or two years of high school French. Indivisible course.

Open to freshmen.

Through the year. Tu. Th. S., 8.

MR. DOUGHERTY

NOTE: Courses 13 and 14 are of equal difficulty. Either may be taken upon the satisfactory completion of French 12 or three years of high school French.

13. Composition and Pronunciation. The objective of this course is the correct writing, pronunciation, and aural comprehension of present-day French.

Open to freshmen, subject to the approval of the instructor.

Through the year. Tu. Th. S., 9.

MR. DOUGHERTY

14. Readings in French Literature. The aim of French 14 is two-fold: the attainment of facile reading ability, and a general view of modern French literature based upon a detailed study of ten works of representative authors.

Open to freshmen.

Through the year. M. W. F., 10.

MR. DOUGHERTY

[113. Introduction to French Civilization. A selective survey of the history, art, literature, and music of France, from the Middle

Ages to the present time, given in coöperation with the Worcester Art Museum. The material will be presented in weekly two-hour meetings at the Museum by means of lectures, talking films, photographs, slides, and phonograph records. A meeting at the college will be arranged for a third hour weekly. This course is intended for students who have completed course 14; ordinarily it will not be counted toward fulfillment of the general requirement in foreign languages.

Through the year.

MR. DOUGHERTY]

(To be given in 1936-37.)

114. General View of French Literature. A unified and fairly complete account of French literature from the beginning to the present time. Prerequisite, course 14.

Through the year. T. Th. S., 10.

MR. CHURCHMAN

NOTE: Not more than two of the courses in literature listed below are offered each year to qualified students as private conference courses, devoted to wide reading by the student along lines suggested by his own preferences but under guidance by the instructor in weekly conferences. A short thesis is required in each semester. Before undertaking any of these courses it is ordinarily assumed that the student will have successfully completed French 114 with a grade not lower than B and will have given evidence of ability to do advanced work by himself.

15. Literature of the Seventeenth Century. MR. DOUGHERTY

115. Literature of the Middle Ages. MR. DOUGHERTY

16. Literature of the Nineteenth Century. MR. CHURCHMAN

116. Literature of the Sixteenth Century. MR. CHURCHMAN

19. Literature of the Eighteenth Century. MR. DOUGHERTY

119. Contemporary Literature. MR. CHURCHMAN

17. Phonetics, Advanced Composition and Oral Work. Intensive linguistic work for intending teachers and other advanced students. Prerequisite, course 13.

Through the year. M. W. F., 10.

MR. CHURCHMAN]

Offered in alternate years. To be omitted in 1936-37.

[Education 204b. The Teaching of Modern Languages. (Formerly French 101). For description see announcement of "Department of Education."

One third of a course, second semester. W., 4-6.

Offered in alternate years.

MR. CHURCHMAN]

COURSES IN SPANISH

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary. Carefully graded reading; exercises in grammar and pronunciation. Attention is paid to the artistic and cultural achievements of Spain. Indivisible course.

Open to freshmen.

Through the year. M. W. F., 11.

MR. DOUGHERTY

[12. Intermediate. Combination of readings from Spanish literature with more advanced study of the language, oral and written. Prerequisite, course 11 or two years of high school Spanish.

Open to freshmen.

Through the year. Tu. Th. S., 10.

MR. CHURCHMAN]

Offered in alternate years. To be offered in 1936-37.

DEGREES CONFERRED

In the Calendar Year 1935

BACHELOR OF ARTS

Walter Scott Allan, Jr.
(With High Honor)
Philip Elwyn Arsenault
Raymond Alton Beeber
Gerard Mandeville Berthiaume
Robert Aime Bolduc
Earle Brown Jr.
Maurice Julius Burwick
Philip Latimere Carpenter
Arthur Wheeler Carroll
Burton Everett Clark
(With Honor)
Charles Baer Cohn
Alvah James Conant
Norman Giles Cutler
Herman William Domblatt
Harry Frederick Dombrosk, Jr.
Roland Axel Erickson
(With Highest Honor)
Paul Marcel Glaude
(With High Honor)
Walter David Glidden, Jr.
Alfred Goldenberg

David Marshall Gould
(With Honor)
John Paul Goulding
(With Honor)
Milton Lory Grout
Hans Heinrich Hagemann
Oliver Richard Hall
John Richard Hirtle
Walter Ahaesy Hoar
George Francis Lisk
Roland Joseph Menard
Norman Buck Moore
Richard James O'Neil, Jr.
Franklyn George Palmer
Maxwell Louis Perman
David Russell Porter
Milton Edwin Prescott
James Lewis Riley
Roger Wolcott Russell
Roger Burgess Spencer
Vitold Sukaskas
John Thomas Trumbull
Paul Albert Varg
Arthur Robert Williams

BACHELOR OF EDUCATION

Ruth Idelle Bacon
Margaret Mary Doyle
Addie May Ginn
Ethel Haines
Amy Florence Kirby

Agnes Gertrude Shea
Geraldine Claire Talbot
Mary Tibbetts Underhill
Florence Irene Waldron
Margaret Maria Wasson

MASTER OF ARTS

Arthur Richard Backstrom
Kathleen Mary Burns
Edwin Broughton Coddington
Robert Carl Cole
Lois Alice Cotton
Lloyd Eager Crane
Hyman Samuel Denmark
Harold Joseph Fitzgerald
Rosaline Goldman

Gertrude Esther Grady
Frances Green
Charles Francis Johnson
William Mawhinney Keenlyside
Anna Pauline Kennedy
Walter Emmett Kirkendall
George Francis Lynch
Marie Patricia Mahoney
Gerald James Matchett

Frederick Edward Petke
William Franklin Russell
Alfred Frederick Schreiber

Anna Genevieve Eaves Simmons
George Paul Sullivan

DOCTOR OF PHILOSOPHY

Robert James Beitel, Jr.
Robert Heath Brown
John Norman Carls
Milan Adelbert Chapin, Jr.
John Tougas Croteau
Franklin Carl Erickson

Ryoichi Ishii
Minnie Ethel Lemaire
Claude Cassell Neet
Sidney Harold Newman
Joseph Roy Smith
Karl Chism Whitehouse

SUMMARY

Bachelor of Arts	41	Master of Arts	23
Bachelor of Education	10	Doctor of Philosophy	12

REGISTER

Names of students are grouped in four lists. I, graduate students, college students, and special students in attendance during the regular academic year; II, those who attended the 1935 Summer School; III, extension students; IV, candidates for the degree of Bachelor of Education.

I. GRADUATE STUDENTS, COLLEGE STUDENTS AND SPECIAL STUDENTS IN ATTENDANCE DURING THE REGULAR ACADEMIC YEAR

Explanation: S—scholar; F—fellow; HF—honorary fellow; numerals 36, 37, 38, and 39 are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; B—biology; Ch—chemistry; EC—Economics and sociology; En—English; G—geography; Gl—geology; Ger—German; H—history and international relations; M—mathematics; Ph—physics; Ps—psychology; RL—romance languages.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

This list includes the names of all who have matriculated and registered. An asterisk (*) indicates that the student has withdrawn from the University prior to March 1, 1936. A dagger (†) indicates enrollment for the second semester only.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Abbott, Carroll Marden	H g		36 Rollinson Rd.
Adamian, Parnag Gabriel	38		21 Edward
Adams, Willard Granville	36	Holden	
Allen, Harold Gates	Ps s; g	Barre	
*Allen, Raymond Harrington	39	No. Grafton	
Amsden, Chester Cornwall	39		71 Highland
Amsden, Madeleine Elizabeth	H g	Brookfield	24 Oberlin
Anicetti, Robert John	Ch S	Lisbon Falls, Me.	2 Woodbine
Arenberg, David Lewis	Ph S	Rochester	44 Maywood
Arnold, Samuel Leonard	38		148 Elm
Aronson, Herbert Leon	39	So. Norwalk, Conn.	Estabrook Hall
Ashworth, Jessie Ellen	H F	Orono, Me.	21 Shirley
Baharian, Bedros	38		9 Cottage
Baldwin, Joseph Vincent	36	No. Wilbraham	Estabrook Hall
Bartimo, Frank Antonio	39	Leominster	Estabrook Hall
Bedrosian, Kapriel	Ps g		80 Elm
Beeber, Raymond Alton	Ec S		14 Dover
Belden, Wilma	G g	Lewiston, Mont.	20 Gates
*Benoit, Paul Emile	Ec s		15 Columbus
Berg, Carl Gustaf	36		843 Millbury
Berlin, Sumner Abraham	39		89 Richmond Ave.
Bernstein, Benjamin	38		38 Bowdoin
Bibeau, Delphis, Jr.	36		303 Cambridge
Biron, Leo Joseph	39	Williamstown	Estabrook Hall
Black, Lloyd Deacon	G S	Scarsdale, N. Y.	6 Downing
Blake, Nelson Manfred	H F	Gardner	6 Charlotte
Blanchard, Donald	38	Stoneham	Estabrook Hall
Blanchard, John Putnam	38	Spencer	
Blanchard, Willard Francis	37	Millbury	
Blaney, Cyril Chandler	36	Westford	8 Wyman
Bliven, Roger	37		31 Tallawanda Dr.
Boin, Victor Paul	37		129 Eastern Ave.
Brandes, Frederick Millea	38		106 Elm
Brauer, Murray	37		750 Pleasant
Brierly, William Biggar	G S	Millbury	13 Hawthorne
Briggs, Charles Dwight, Jr.	38	Princeton	
Brigham, Robert Irving	39		17 Poniken Rd.
Broad, Jacques Leon	38	New York, N. Y.	18 Longfellow Rd.
Brockwell, John Joseph	Ps S	Youngsville, N. Y.	166 Woodland
Brosnihan, Andrew Joseph	36		127 Puritan Ave.
Brown, Barbara	H S	Baldwinsville, N. Y.	33 Beaver
Brulé, Irving William	38		1319 Main
Burnham, Robert Henry	37	Ayer	
Burt, Arthur Lowe	38		38 Fales
Butler, William Frank, Jr.	36		10 Melville
Byrn, Francis Young	H S	Kenmore, N. Y.	35 Maywood

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Caplovich, Jerome	38	Southbridge	
Carlson, Ralph Ludvig	38	Paxton	
Carroll, George Joseph	39	Arlington	Estabrook Hall
Carruthers, John Burr	38	Framingham	
Castaldi, Basilio	36	Boylston	
Chafetz, Samuel	39		23 No. Woodford
Chase, Robert Wood	38	Uxbridge	Estabrook Hall
Chupas, Vincent Joseph	39		46 Perry Ave.
Churchill, Frederick Jackson	39		35 Guild Rd.
Clapp, Wendell Austin	39		26 Kingsbury
Clark, Francis Gerald	H S	Scranton, Pa.	166 Woodland
Coddington, Edwin Broughton	H F		21 Shirley
Colby, Carroll Durgin	39		276 Highland
Cole, Hubert Morton, Jr.	38	Springfield	13 Gates
Convery, James Francis, Jr.	37		29 Princeton
Cook, Carolyn Clayton	Ps S	Canton	9 Hawthorne
Cotzin, Milton	38		40 Woodford
Cotzin, Summer Burton	38		1 Audubon Rd.
Craig, William Walter	39	Paxton	
Cummings, Harold Williams	G g	Bolton	
Dahl, Randle Edwin	Ec F	Brooklyn, N. Y.	166 Woodland
Damarjian, Aram	38		25 Bancroft
Danckert, Joseph Francis	38		5 Gordon
Davis, John King	37	Webster	
Davis, Lester William Tallman	39	Fall River	Estabrook Hall
Davis, Wendell Woodworth	37		16 Fiske
Dawson, Leroy Lendon	Ps s; g	Barre	
deBellefeuille, Wilfrid Oliver	39		201 Lincoln
Deering, George Edwin, Jr.	39	Shrewsbury	
Delano, David Prentice	37		62 Holden
De Lollis, Nicholas John	38		14 Liscombe
Derber, Milton	36	Springfield	4 Hancock
Diliberto, Joseph Francis	39	Brooklyn, N. Y.	Estabrook Hall
DiNardo, Ramón Albert	39	Milford	
Domblatt, Herman William	Ch S		17 Hitchcock Rd.
*Donaher, John Francis	Ec s		6 Irene
Donahue, Michael Aloysius	H g		161 Institute Rd.
Dworkin, George Samuel	39		174 Vernon
FD 3327, Louis	H g		49 Elm
Eames, Robert Porter	36	Newtonville	16 Shirley
*Eastman, Karl Dey	Ger s	Amherst	114 Woodland
*Ekdahl, Hildur Marianne	Ec g		81 Bay State Rd.
Elias, Stephen	38		98 Austin
Epstein, Burton	39		138 Elm
Erickson, Irving Peter	37		15 Forestdale Rd.
Erikson, Carl Rheinhold	39		2 Clara
†Evans, William Weston	Ec s	Hubbardston	
Fairchild, Johnson Eddy	G S	Glen Ridge, N. J.	189 Beacon
Fairman, Alonzo Bruce	36	Springfield	35 Richards
Fause, Asbjorn	G g	Duluth, Minn.	20 Ripley
*Feener, Carleton LeRoy	Ec g	Whitinsville	
Feingold, Joseph Harry	36		53 Howland Ter.
Finer, Harold Mitchell	36	Dorchester	898 Main
Fink, Marvin Samuel	36	New Britain, Conn.	44 Maywood
†Fitzpatrick, Robert J.	Ps s		11 Healy Rd.
†Fleckner, Max	Ec F	Fribourg, Switzerland	166 Woodland
Fleming, Raymond Edgar	38		2 Packachoag
Fletcher, Thomas Lloyd	37		125 Grand View Ave.
Fletcher William Glover	36	No. Brookfield	35 Maywood
Fortier, Quincy Ernest	38	Shrewsbury	
†Foxhall, William B.	B s	Shrewsbury	
Friedman, Stanley Morton	39		158 Morningside Rd.
Gadomski, Joseph Anthony	39	Clinton	
Garner, Ralph E.	Ps g	Lincoln, Neb.	166 Woodland
Gaston, David Finis	39	Grantwood, N. J.	Estabrook Hall
Gaucher, Arthur Norman	39	Spencer	
Gauthier, Armand Joseph	38		871 Main
Gensheimer, Donald Andrew	39	Feeding Hills	150 Malvern Rd.
George, Gordon Bennett	36	Westboro	
Gibbs, Robert Grant	38		7 Ruthven Ave.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Gibson, William Marvin	Ec g		42 Mason
Gifford, Roger Gaillard	36	Passaic, N. J.	80 Florence
*Gill, John Willard	G g	Waco, Texas	166 Woodland
Giraitis, Albert Philip	Ch F	Hartford, Conn.	
Gleason, Hartley Clifford	38		46 Chamberlain Pky.
Gobeille, Normand Edgar	39		141 Austin
Goff, Joseph Nathaniel	38		97 Granite
Goldberg, Edwin Louis	37		543 Grafton
Goldberg, Simon	38	Salem	Estabrook Hall
Goldman, Rosaline	Ps F		138 Woodland
Goodwin, Ralph Roger	39	Gardner	Estabrook Hall
Gordon, Jacob	37	Dorchester	4 Hancock
Goulding, John Paul	Ch S	Leicester	
Granger, Rocheleau Zephirin	38		4 Gates
Gray, William David	38	So. Manchester, Conn.	Estabrook Hall
Green, Arnold Wilfred	37	Three Rivers	925 Main
Gregory, Elizabeth Emery	G g	Keene, N. H.	Not in residence
Grodberg, David Abraham	36		112 Elm
Groesbeck, Frederick Adams	38; Ec s	Coxsackie, N. Y.	Estabrook Hall
Grout, Vernon Marshall	38		83 Olean
Gryk, Anthony John	38	So. Manchester, Conn.	Estabrook Hall
Guterman, Bert	39		15 Tahanto Rd.
Guterman, Henry Samuel	37		15 Tahanto Rd.
Haddad, Albert	39		18 Wall
Haddad, Mitchell	39		18 Wall
Haines, George Henry	Ec F	Trenton, N. J.	14 Oberlin
Hall, George Edward	37	Millbury	
Hanna, Archibald, Jr.	38		12 Perkins
Hansen, Robert Eugene	36		8 Ericsson
Hargreaves, H. Walter	Ec S	Reno, Nev.	166 Woodland
Hargrove, Harold Gordon	37		76 Moore Ave.
Haringa, Raymond Richard	39	E. Douglass	
Harrington, Edward Marvin	39		10 Ripley
Hausdorf, Benedict Charles	39	Bronx, N. Y.	Estabrook Hall
Hayward, Harold Mansfield	Ec F	Pullman, Wash.	(Main St., Holden)
Healey, Lawrence Patrick	36		8 Plantation
Hearn, George Bligh	39		202 Beacon
Hebberd, John Swift	39		766 Main
Henley, Martin George	Ps s	Mt. Carmel, Ill.	City Hospital
Henning, William Albert, Jr.	39		3 Blaine Ave.
*Henry, Edward James	Ch s		42 Harvard
Herrmann, Frank Clifton	38	Northboro	
Herrmann, William Charles	39	Northboro	
Hershman, Max	38	Dorchester	
Higgins, Charles Albert	39		53 Queen
Hirsohn, Sidney	Ec S	Richmond, Va.	35 Barnard Rd.
Hoag, Charles Leonard	H F	Eaton Rapids, Mich.	166 Woodland
Hodgkins, Alfred Sawyer	36		22 Shirley
Holmgren, Axel Verner	Ch F		6 Silver
Holstrom, Andrew Gustaf	37	Auburn	21 Fifth Ave.
Hulbert, Kenneth Lee	36	Westboro	
Hunter, George Alexander	38		10 Glenwood
*Hunter, Robert E.	38	Ripley, N. Y.	Worc. State Hospital
Hunter, Thomas Murray	H S	Vancouver, B. C.	25 Grand
Hutchinson, Joseph Carleton	37	Haverhill	Estabrook Hall
Illingworth, Reginald G.	s	Chester, Vt.	Estabrook Hall
Iltanen, Jorma	38		30 Fountain
Inman, Walter Grant	H F	Indianola, Iowa	166 Woodland
*Ivazian, Aghasi Ivan	38		80 Elm
Jaffray, Archibald Gidley	38	Brookfield	
Jannery, Harold Kenneth	37	Millbury	
Johanson, Ingrid	H g	Oakdale	141 So. Quinsigamond
Johnson, Austin Simon	36	Manchester, Conn.	4 Norwood
Johnson, Lincoln Merton	38		26 Stockton
Jonitis, Peter Paul	39		5 Vernon Ter.
Kanowitz, Sidney	37	Chester	6 Charlotte
Keenlyside, William Mawhinney	H F	Vancouver, B. C.	166 Woodland
Keith, John Robert	36	Warren	13 Gates
Kellie, Charles Clark	38	Waterbury, Conn.	Estabrook Hall
Kennan, Dana Willard	37		157 Highland

REGISTER OF STUDENTS

117

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Kenneway, Harold John	39	Brookfield	
Ketela, Kanko Arvid	39	Rutland	
Killilea, Joseph Henry	39	Leominster	Estabrook Hall
Kimball, Roland Charles	36	Westboro	
Kneller, John William	38		1 Russell
Knight, Albert Edwin	38		19 Rollinson Rd.
Kopelman, Bernard	38	Dorchester	4 Hancock
Kos, Walter John	39	Webster	
Kroll, Henry Michael	38	New York, N. Y.	53 Queen
Krzinowek, Alfred Joseph	37	Rutland	6 Jacques Ave.
Laine, Iver	36		42 Vilander
†Lambert, Richard Davis	Ec g		7 Balder Rd.
Landry, Raymond Edward	38		22 Indian Lake Pkwy.
Langenheim, William James	39	Brookline	Estabrook Hall
Laprade, Charles Norman	39	Spencer	
*LaRiviere, Norman Henry	39		1012 Pleasant
Laskoff, Leo Lawrence	36		17 Windsor
Laverty, Alfred	38		5 Amesbury
Lavine, Hymen	36	Boylston	
Lax, Martin	36	Dorchester	6 Charlotte
Lenat, Ralph Warren	37	Spencer	
Letendre, Donald Henry	38	Spencer	
Levenson, David Matthew	39		379 Chandler
Levenson, Samuel	H S		941 Main
Levine, Jacob	36	Dorchester	
Levkowitz, Abraham	37	Providence, R. I.	
Lewis, William Lloyd	37		21 Strathmore Rd.
Leyden, Philip John	36	Springfield	49 Florence
Lidstone, Reginald David, Jr.	38		8 Catalpa
Lisabitsky, Joseph	38		100 Granite
Lodding, Woodrow Charles	37		30 Terrace Drive
Logan, Richard Fink	36	Stratford, Conn.	Estabrook Hall
London, Harry	39	Malden	Estabrook Hall
Longo, John Robert	39	Leominster	
Lopatin, Colman	36	New Haven, Conn.	8 Lucian
Lotz, William Albert	Ec g		10 Perrot
Love, John Joseph	38	Webster	
Lubowitz, Murray Maurice	39		105 Houghton
Lupien, David William, Jr.	37		162 Heard
*MacArthur, Harvey Heywood	36	Sterling	
McCarron, Andrew Thomas	36		66 Dover
McCarthy, Andrew Francis	38		77 Fox
McComas, Robert Francis	39	Spencer	
†McGrail, Florence Elizabeth	Ec g		65 Beverly Rd.
*McGrail, James Joseph	Ec g		311 Main
*McGrath, John Thomas, Jr.	37		81 Eureka
McInerney, James Alfred	39		29 Coes
McInnis, Donald Harry	38		439 Chandler
Maher, John William	36		8 Hadwen Lane
Maher, William Joseph	36		8 Hadwen Lane
Malkasian, Henry Aram	39		116 Eastern Ave.
Malkoski, Adolph William	39		170½ Washington
Manoogian, Michael	36		104 Belmont
Martin, Paul Felix	39		11 Fairhaven
Martin, Richard Blazo	39	Ashburnham	
Matchett, Gerald James	Ec F	Grand Junction, Colo.	20 Dutton
May, Louis Henry	37	Keene, N. H.	20 Clement
Mayer, Robert Leo	37	Boston	Estabrook Hall
Melville, Robert Seaman	37		16 Isabella
Merriam, Frederick Stevens	39	Cordaville	
Meyer, Robert Sanford	36	Springfield	53 Queen
Michelson, Goldie Corash	Ec g		24 Carlisle
Mikelk, Franz Stanley	38	Gilbertville	3 Norwood
Miles, Robert Albert	37		6 Hancock
Miliefsky, Henry Samuel	39		90 Granite
Millman, Nathan	36	Springfield	898 Main
Minogue, James Alexander	G S	Duluth, Minn.	20 Ripley
Moberg, Wensel, William	39		4 Dybeck
†Mollo, John Anthony	39		20 Millbrook
Morrison, James Linton	39		6 Marden
Mote, Frederick Albert	Ps S	Dallas, Texas	2 Woodbine
Moulton, Benjamin	39	Northboro	

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Nally, William James	38	No. Grafton	
Namen, Hanna Anthony	39		80 Dewey
Nathanson, Norman Joseph	38	Norwalk, Conn.	6 Charlotte
Nelson, Carl Elmer	36	Milton	35 Maywood
Nelson, Rodney Eric	38		106 W. Boylston
Nelson, Wilfred Albert	37		30 Whipple
Newton, Albert Eugene	37	Windsor, Vt.	18 Shepard
Noble, Otis More	38	Jersey City, N. J.	Estabrook Hall
Norman, Paul Pheneas	39	Malden	Estabrook Hall
Nystrom, John Warren	36		28 Andover
Olson, Carl William	39		53 Chandler ^{Charlotte}
Olson, Walter Albert	39		590 W. Boylston
Ordway, Robert Shaw	36		1017 Main
Ortman, Joseph	37		64 Beaver
Parker, Harry Clarence	G g		4 John
Parmelee, Richard Clark	36	Durham, Conn.	3 Norwood
Parmiter, Charles A.	H g	Holden	
Parslow, John Barr	38		17 Havana Rd.
Patterson, Frank Harmon	36	Bristol, Conn.	35 Maywood
Peltier, Louis Cook	37	West Boylston	39 Chandler
Perry, Henry Barnes	39	Leominster	Estabrook Hall
Perry, Joseph Leo	37		4 Ashton
Person, Robert	37		19 Fiske
Pervere, John Maurice	37	Greenfield	3 Norwood
Peters, George Michael	38		9 Eastham
Peterson, Warren Stanley	39		14 Pineland Ave.
*Peterson, William O.	G g	Moorhead, Minn.	166 Woodland
Pierce, John Hewett	36		15 Berwick
Pomerat, Gerard R.	36	W. Springfield	914 Main
Popowicz, Walter Thomas	38		28 Washington
Porter, David	37		28 Woodford
Potter, Laurence Everett	37	Nashua, N. H.	800 Main
Pottle, Irwin Davis	39	Oxford	
Powell, Allen Shedd	39		4 Riedl Pl.
Powers, George Hugo	39	Shrewsbury	
*Prescott, Milton Edwin	G S		110 N. Parkway
Pride, George Howard	36		1004A Main
+ Powers, James Joseph Jr.	B S		217 Beacon St.
Quimby, Margaret	G S	Montclair, N. J.	156 Woodland
Racicot, Theodore Peter	38	Webster	Estabrook Hall
Rajala, Asari	39	Jersey City, N. J.	Estabrook Hall
Rapaport, Harry	37	Marlboro	
Reichenthal, Eugene Herbert	39	Quincy	Estabrook Hall
Rich, Elizabeth Eldridge	Ps S	Manchester, Conn.	9 Hawthorne
Richardson, Horatio Maunsell	37		115 Paine
Richmond, Mark Stanley	36	So. Hanover	24 Loudon
Riggs, Lorrin Andrews	Ps F		4 Woodbine
Riley, Paul Ward	37		194 Ingleside Ave.
*Roberts, Henry Richard Walter	G g	Cambridge, Eng.	17 Ferdinand
Robinson, Doris Rorden	Ps S	Clinton Corners, N. Y.	6 Norwood
Rochette, Robert Phillips	36		15 Colonial Rd.
*Rogatnick, Joseph Hirsh	38	New York City	6 Downing
Romanoff, Bernard Leon	37		61 Houghton
Romanoff, Saul Mones	37	Clinton	
Rosenberg, Robert Mac	38	Webster	
*Rosenzweig, Saul	Ch s	Malden	State Hospital
Ross, Harold William	37	Spencer	
Rothera, Ralph Edward	36		16 Caro
Roy, Eric Arthur	38		41 Chatham
Rubin, Morton Albert	B F	Roxbury	150 Woodland
Ruseckas, Vincent Peter	38		117 Washington
*Russell, Edwin William	39	W. Chesterfield	Estabrook Hall
Russell, Roger Wolcott	Ps g		22 Holland Rd.
Russell, William James	38	Clinton	
Ryan, Arthur John	39	Webster	
Sagalyn, Julian L.	37	Springfield	18 Downing
Salminen, Ilmari F.	Ch F.	Hubbardston	2 Woodbine
Sanjurjo, Maria Antonina	G S	Vigo, Spain	38 Monterey Rd.
Sawallis, Robert Funston	39	Canaan, Conn.	31 May

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Scanlan, James Joseph	Ch g		5 Woodbine
Schadegg, Francis John	G g	Cheney, Wash.	8 Wyman
Schiff, Arthur	39	Haverhill	Estabrook Hall
Schorr, Stanley Alvin	37		18 Hartshorn Ave.
Sears, Marion Jeannette	Ch g	Northampton	41 Beaver
Serijan, Kasper Thomas	36		38 Laurel
Shanbaum, Samuel	36	Clinton	
Shannon, Paul Vincent	B s		159 Highland
Shapiro, Max Andrew	39	Roxbury	Estabrook Hall
*Sharrett, Ralph Louis	36	Bristow, Va.	132 Estabrook Hall
Shaw, Paul Frederick	39		12 Intervale Rd.
Shea, Daniel John	37		110 Windham
Sheedy, Eleanor	Ec g		3 Forestdale Rd.
Shields, Richard James	38	Agawam	13 Gates
Shurrager, Phil Sheridan	B F	Athens, Ohio	166 Woodland
Simonds, William Albert	37		66 Lovell
Smith, Edward Arvey	39		17 Jones
*Smith, Sidney Bernard	39		135 Providence
Solomon, Abraham	36		7 So. Stowell
Sommerman, Stephania Maniosky	Ec g		20 Ripley
Spencer, Charles Ellis	B s		132 Coolidge Rd.
Stavrianos, Leften Stavros	H F	Vancouver, B. C.	166 Woodland
Stead, Albert Theodore	38		16 Sigel
Steere, Howard Clarence	39		36 Fruit
Steever, Walter Robert	39	Jersey City, N. J.	Estabrook Hall
Steeves, Frederic Vosmus	39	Leicester	
Stephan, Leon LeMar	G F	Bowling Green, Ky.	6 Hancock
Stewart, Kenneth Howard	36		151 Vernon
Stimson, William Thomas	37		34 Outlook Drive
Stockman, Harlan Wheelock	38	Dodge	
Stotz, Carl Louis	G S	Detroit, Mich.	166 Woodland
Studley, Lois A.	H S	Attleboro	24 Gates
Sukaskas, Vitold	B g		18 Hillside
Sullivan, Frank David	38		115 Lincoln
Sundeen, Earl Ivan	38		48 Channing
Sundeen, Roy Carl	39		48 Channing
Syrocki, Boleslaus John	B S	New Britain, Conn.	20 Gates
Tacker, Herbert Ralph	37		33 Lincoln
*Taylor, Norman William	39	Garland, Pa.	Estabrook Hall
Taylor, Robert Clark	37	Stoneham	35 Maywood
Terio, Oiva Axel	36	Rutland	
Terrill, Irving William	37		14 Charlotte
*Tite, Spiro Louis	39	Charlton	
Titus, Howard Andrews	37	E. Morris, Conn.	55 Downing
Toman, James Edward	37	Manchester, Conn.	Estabrook Hall
Trueblood, Lester Wendell	G S	Loogootee, Ind.	166 Woodland
Vaitkus, John Walenty	37		28 Dorchester
Valatka, Joseph August	39		40 Plantation
*Vinciguerra, Edmund Albert	36	Bridgeport, Conn.	13 Gates
*Wagstaff, Joseph Robert	39	Dover	Estabrook Hall
Walker, Paul Robert	Ec S	Charlton	
Warren, Arthur Bertrand	37		117 Beaconsfield Rd.
Waskiewicz, Peter Francis	37	Warren	925 Main
Wetherbee, Robert Thomas	39	Bolton	
Wheaton, Philip Damon	38	Putnam, Conn.	Estabrook Hall
White, Martin Francis	H S	Wheelwright	
*White, Robert Francis	38	Millbury	
Wiesman, James Henry	39		99 Prescott
Wilder, Arthur Stanley	36		3 Bernice
Williams, Joel	37	Dorchester	4 Hancock
*Wissenbach, Charles Fred	37	Clinton	
Wolkowich, Haskell Philip	38		27 Loxwood
Yetvin, Irving Jack	38		27 Marian Ave.
*Youngquist, Lincoln Roy	36		47 Sterling
Zarrow, Meyer X.	B S	Millbury	166 Woodland

II. SUMMER SCHOOL STUDENTS (1935)

An asterisk (*) indicates participation in a field trip only.

- Abbott, Carroll M., Worcester
 Adshead, Mona, Auburn
 Ahearn, Margaret M., Worcester
 Anderson, Geraldine A., Ridgway, Pa.
 Anguria, Anna C., Worcester
 Austin, Jane, Spencer
 Baldwin, Joseph, No. Wilbraham
 Balsam, Ida M. V., Worcester
 Bard, Henrietta O., Pleasantville, N. Y.
 Beishlag, George, Detroit, Mich.
 Bennett, Howard F., Worcester
 Blackburn, Ruth, Northboro
 Blakeslee, Edith, Worcester
 Boyer, Helen M., Washington, O.
 Braman, Elizabeth E., Central Bridge, N. Y.
 Bright, Evelyn B., Keyser, W. Va.
 Brown, Charlotte C., Plymouth
 Buckley, Helen T., Worcester
 Burns, Arthur, Marlboro
 Carey, Helen, Worcester
 Carney, Grace L., Worcester
 Chisholm, Hester D., Worcester
 Churchman, Elizabeth S., Worcester
 *Clancy, Henry, Oswego, N. Y.
 Clough, Stella J., Montclair, N. J.
 Conant, Virginia L., Worcester
 Creswell, G. Randolph, Worcester
 Critz, Verne W., E. Patchogue, N. Y.
 Daley, Mary Agnes, Worcester
 Damarjian, Aram, Worcester
 Darling, A. Bennett, Worcester
 Davis, Myra G., Worcester
 Deering, George E. Jr., Shrewsbury
 Derosia, Edith M., Williamsburg
 Dolan, Robert A., Marlboro
 Donahue, Katherine C., Worcester
 Donahue, Michael A., Worcester
 Donnelly, Irene, No. Brookfield
 Dooley, Norma A., Marlboro
 Doyle, Margaret M., Worcester
 Dubé, Joseph J., Milford, N. H.
 Ebbeson, Burton G., Worcester
 Edinburg, Selma B., Worcester
 Fletcher, William G., Brookfield
 Fontaine, Louis A., Worcester
 Ford, Catherine E., Grafton
 Fuller, Tyra L., Worcester
 Gallen, Elizabeth M., Worcester
 Gallotte, Marion J., Willimantic, Conn.
 Gaumond, Alice D., Southbridge
 Gaw, Helen I., Brookline
 George, Robert B., Oakham
 Gillespie, John C., Ghent, N. Y.
 Gilligan, Frances O., Worcester
 Haines, Ethel, Hope Farm, Dutchess Co., N. Y.
 Hanft, Ella A., Washington, D. C.
 Hanscom, Olive, Worcester
 *Hart, Margaret, Worcester
 Havener, Gretchen, Worcester
 Hayden, M. Dolores, Poughkeepsie, N. Y.
 *Hazen, Edna, Bloomsburg, Pa.
 *Hendricks, Mabel, Sterling Station, N. Y.
 Hodgkins, Alfred S., Worcester
 Holstrom, Andrew, Auburn
 Illingworth, Selma K., Worcester
 Johanson, Ingrid, Oakdale
 Jones, Susie E., Peoria, Ill.
 *Keller, Lois R., Cleveland Heights, O.
 Kennedy, Winnifred C., Worcester
 Kenney, Ruth B., Worcester
 Kimball, Roland C., Westboro
 King, Gordon L., Leominster
 Kingsbury, Mildred L., White River Junction, Vt.
 Kistler, Esther L., Nanticoke, Pa.
 *Klotz, Margaret, Baldwinville, N. Y.
 Kuhlke, Donald D., Akron, O.
 Lambert, Richard D., Worcester
 Langley, Roger F., Barre
 Lathrope, Frances M., Kankakee, Ill.
 Lidgate, James A., Worcester
 Long, Alice M., Worcester
 Long, Harriet Ruth, Buffalo, N. Y.
 Looney, Margaret C., Worcester
 Loungway, Lillian A., Brookfield
 Luce, Clifford N., Worcester
 Lupien, David W. Jr., Worcester
 Mahoney, Margaret V., Worcester
 Mansur, Lawrence C., Worcester
 Marlborough, Mary E., Worcester
 Martens, Eva E., Franklin Park, Ill.
 McAleer, Myles R., Worcester
 McComas, Robert F., Worcester
 McGlynn, Dorothea, Webster
 McGourty, Kathleen, Worcester
 McGovern, Thomas F., Worcester
 McHugh, Elizabeth F., Worcester
 McKeon, Florence C., Worcester
 McSheehy, Elsie M., Worcester
 Medin, Elin E., Auburn
 Mellen, Alice, Holden
 Metzler, Robert S., Harrisburg, Pa.
 Miles, Robert A., Worcester
 Monroe, Gwendolyn, Sturbridge
 Namen, Gabriel A., Worcester
 *Neary, J. Bernard, Oswego, N. Y.
 Nelson, Carl, Milton
 Nelson, Sarah, Shrewsbury
 Nylin, C. George, Worcester
 O'Donnell, Joseph F., Scranton, Pa.
 *O'Grady, Winifred, Worcester
 Ohrn, I. Marie, Worcester
 Owens, Mae F., Woonsocket, R. I.
 Parmiter, Charles A., Holden
 Perch, Emmanuel, Worcester
 Pervere, John M., Greenfield
 *Phipps, M. Alice, Clockville, N. Y.
 Pomerat, Gerard R., Worcester
 Powers, James J., Worcester
 Pownall, Helen, Keyser, W. Va.
 Presson, Harold W., Worcester
 Preston, Rosalene M., Kingston, N. Y.
 Pride, George H., Worcester
 Quinn, Margaret, East Douglas
 Reed, Wesley B., Berlin
 *Rhoades, Fanny, Hannibal, N. Y.
 Richardson, Horatio M. Jr., Worcester
 Richmond, Mark S., Worcester
 Riley, William F., Worcester
 Rivard, Dorilla A., E. Douglas
 Roberts, Lillian, Groton
 Rush, Anne S., Scottsville, N. Y.
 Russell, Roger W., Worcester
 Sannella, Frank, Oxford
 Scales, Peter E., Worcester
 Scanlon, Lillian E., Worcester
 Schadegg, Francis J., Cheney

*Schmidt, Irene E., Duluth, Minn.
 Shea, Agnes G., Worcester
 Sherman, A. A., Silver Creek, N. Y.
 *Silverman, Julia, New York City
 Smith, John E., Ames, Iowa
 Smith, Carroll E., Batavia, N. Y.
 Smith, M. Marjorie, Detroit, Mich.
 Southworth, Hazel E., Hastings, N. Y.
 Spencer, Chester A., Worcester
 Steinhilber, Otto W., Shrewsbury
 Stone, Walter M., Oakham
 Stromgren, Emagene E., Worcester
 *Sullivan, Catherine, Worcester
 *Sullivan, Mary, Worcester
 *Swartfiguer, Eva, Poughkeepsie, N. Y.
 Syrene, Harry N., Worcester

Talbot, Geraldine C., Worcester
 Thayer, Lillian M., Morgan Center, Vt.
 Thornton, Jessie M., Worcester
 Underhill, Mary T., Drexel Hill, Pa.
 *Ucraft, Milton, Sterling Station, N. Y.
 Van Name, M. Etta, Centerville, N. Y.
 Varg, Paul A., Worcester
 Waldron, Florence I., Rome, N. Y.
 Wasson, Margaret M., Ilion, N. Y.
 Whipple, Mary Ella, Worcester
 Wiback, Helen E., Worcester
 Wilder, Arthur S., Worcester
 Wilson, Hubert, Wilbraham
 Wright, Helen L., Worcester
 *Young, Ann, Liverpool, N. Y.
 *Zeller, Rose, Charleston, Ill.

III. EXTENSION STUDENTS

1935-36

Alden, Clara L.
 Amidon, Dorothy A.
 Bergin, Irene P.
 Bielanski, Mary
 Boushe, William J.
 Bowen, Doris M.
 Boyle, Harry A.
 Bridgess, Esther L.
 Bridgess, M. Philbrick
 Brown, A. Jean
 Bryant, Nellie J.
 Buckley, Helen T.
 Bullock, Vera H.
 Cahill, Anna G.
 Cahill, Catherine M.
 Callahan, Catherine D.
 Carlson, Andrew M.
 Carmody, Catherine A.
 Carney, Grace L.
 Coe, Elizabeth H.
 Coffey, Grace C.
 Collamore, Lillian A.
 Cone, Mary M.
 Conroy, Mary W.
 Cunningham, Helen M.
 Cunningham, Mary E.
 Delano, Annie B.
 Donnelly, Mary T.
 Donohue, Elsie P.
 Duggan, Helen G.
 Dumphy, Irene E.
 Dunn, Marion S.
 Early, Mary
 Eastman, Gertrude T.
 Eaton, Louise S.
 Ericson, Emil
 Erikson, Viola B.
 Flaherty, Mary J.
 Fuller, Henry S.
 Galvin, Della E.
 Gately, Angela F.
 Giblin, Dora M.
 Gilgan, Mary A.
 Greaney, Julia V.
 Griffin, Eva B.
 Guenther, Pearl M.
 Hagerman, Lois M.
 Hall, Evelyn J.

Harrington, Cynthia O.
 Harrington, Edwin C., Jr.
 Harrington, Herol M.
 Harrison, Hazel M.
 Hays, Janet C.
 Healy, Katherine R.
 Healy, Marguerite A.
 Hempel, Carl H.
 Hough, Barbara
 Houghton, Arline R.
 Howe, Wyman V.
 Hunt, Mary G.
 Hurowitz, Lillian F.
 Johanson, Gunnar A.
 Johnson, Priscilla A.
 Joney, Olive L.
 Jordan, Grace M.
 Kaplan, Sara
 Kelly, Rita M.
 Kennedy, Helen
 Kennedy, Winnifred C.
 Kenney, Helen
 Killeen, Florence F.
 Kittredge, Mary F.
 Langley, Roger F.
 Locke, Mabel R.
 Lombard, Helen F.
 Lombard, Mildred A.
 Long, Alice M.
 Loungway, Lillian A.
 McDonald, Mary I.
 McGourty, Kathleen D.
 McGrath, Mary A.
 McHugh, Elizabeth F.
 McKenna, Ellen R.
 McKeon, Florence C.
 Mahan, Kathryn E. A.
 Mahoney, Margaret V.
 Mahoney, Mary L.
 Mahoney, Rose M.
 Marshall, Nora A.
 Mathews, Georgiana P.
 Matson, M. Cecile
 Maxwell, Lillian R.
 Maynard, Gertrude
 Medin, Elin E.
 Mellen, Alice
 Merriam, George H.

Miller, Dorothy B.
 Misiewicz, Harriet A.
 Moran, Honora A.
 Murphy, Joseph D.
 O'Connor, Deborah F.
 O'Connor, Mary E.
 O'Flynn, Mary G.
 O'Grady, Winifred L.
 O'Hara, Abigail L.
 Ohrn, I. Marie
 O'Leary, Dorothea W.
 Orr, Helen A.
 Peterson, Arthur F.
 Peterson, Helga E.
 Pettee, Evelyn H.
 Pierce, Donald D.
 Power, Gertrude C.
 Ray, Louise M.
 Reardon, Gertrude E.
 Regan, Mary E.
 Rice, Edson E.
 Rice, Rebecca
 Rollins, Ellen H.
 Salminen, M. Irene
 Sannella, Frank
 Scanlon, Lillian E.
 Scannell, Margaret E.
 Scott, Edna M.
 Scott, Marion L.
 Sears, Margaret F.
 Seder, Jeannette R.
 Shea, Ella G.
 Shea, Joseph E.
 Sherin, M. Ardis
 Smith, Sonia
 Sturke, Ralph C.
 Sugden, Leila
 Sullivan, Catherine A.
 Sullivan, Mary A.
 Thayer, Eleanor G.
 Thibau, Beatrice
 Ward, Ralph W.
 Whipple, Mary E.
 Willard, Ethel L.
 Wilmarth, Madelin A.
 Wilmouth, Irene F.
 Woodbury, Helen F.
 Wright, Helen L.

IV. CANDIDATES FOR THE DEGREE OF BACHELOR OF EDUCATION IN ATTENDANCE DURING 1935-36, EITHER IN THE 1935 SUMMER SCHOOL OR DURING THE REGULAR SESSIONS OF THE UNIVERSITY

(Each of these names will be found also in one or more of the preceding lists)

Amidon, Dorothy A.	Kennedy, Winnifred C.	O'Grady, Winifred L.
Brown, A. Jean	Kenney, Helen	Ohrn, I. Marie
Bryant, Nellie J.	Killeen, Florence F.	Power, Gertrude C.
Cahill, Anna G.	Long, Alice M.	Regan, Mary E.
Cahill, Catherine M.	Looney, Margaret C.	Rollins, Ellen
Carney, Grace L.	Loungway, Lillian A.	Salminen, M. Irene
Coffey, Grace C.	McDonald, Mary I.	Shea, Agnes G.
Cunningham, Helen M.	McGourty, Kathleen V.	Shea, Joseph E.
Daley, Mary A.	McHugh, Elizabeth F.	Southworth, Hazel E.
Derosia, Edith M.	McKeon, Florence C.	Sugden, Lelia
Doyle, Margaret M.	McSheehy, Elsie M.	Talbot, Geraldine C.
Early, Mary	Mahan, Kathryn E. A.	Underhill, Mary T.
Erikson, Viola B.	Matson, M. Cecile	Van Name, M. Etta
Galvin, Della E.	Maxwell, Lillian R.	Waldron, Florence I.
Gilgan, Mary A.	Medin, Elin E.	Wasson, Margaret M.
Haines, Ethel	Mellen, Alice M.	Willard, Ethel L.
Hays, Janet C.	O'Connor, Deborah F.	Wilmarth, Madelin A.
Healy, Katherine R.	O'Flynn, Mary G.	

SUMMARY 1935-36

Undergraduates		294
Freshmen	93	
Sophomores	78	
Juniors	63	
Seniors	60	
Graduate Students		83
Special Students		17 15
Extension Students		144
Summer School Students (1935)		168
Total		<u>704</u> 6
Less duplications		42 44
Net Total		<u>662</u>

INDEX

Abstracts of Dissertations and Theses	48, 49, 50
Academic Year	5, 20
Administrative Officers	7
Admission	20, 29, 43, 44, 53, 59, 63
Advanced Standing	32, 64
Advisers, Faculty	33
Aid, Student	24, 27, 42
Ancient Languages	35, 66
Art Department	26
Assistants	12
Athletics	40, 41
Attendance, Summary	122
Auditors	22
Bachelor of Arts Degree	19, 35
Bachelor of Education Degree	19, 62
Biology	68
Buildings	19
Calendar	5, 6
Candidacy for Bachelor's Degrees	34, 62, 63
Candidacy for Graduate Degrees	47, 49
Certificates, Admission by	30
Chemistry	73
Classification of Students	38, 43, 114
College	27
College Board	15, 17
Committees,	14, 15, 16, 17, 18
Conditions, Admission with	31
Contents, Table of	3, 4
Degrees	19, 35, 47, 49, 62
Degrees Conferred	112, 113
Departmental Honors	17, 38
Departments	20, 66
Dining Hall	23
Diploma Fees	23
Dissertation (Ph.D.)	50
Divisions	34, 35, 36
Doctor of Philosophy Degree	19, 49
Dormitory	23
Economic Geography, Journal of	52
Economics and Sociology	76
Education	15, 81, 103
Electives	35, 83
Eligibility	40, 43
English	87
Estabrook Hall	19, 23
Examinations for Admission	31

Examinations for Graduate Degrees.....	46, 48, 50
Expenses	21, 22, 23, 24, 54, 60
Extension Courses	15, 19, 21, 62, 63, 65
Extension Division	19
Extra-Curricular Activities	40, 41
Faculty	2, 8, 14
Fees,	21, 22, 23, 54, 60
Fellowships, Graduate	24, 42, 45, 46
Fine Arts, Appreciation of	35, 89
Fine for Late Registration	21, 33
Foreign Language	16, 34, 35, 36, 46
French	109
Freshman	38
Freshman Programs.....	34
Geography	19, 52, 90
Geography, Field Trips	58, 61
Geography, Graduate School of	2, 19, 52
Geology	90
German	90
Government and Political Science	94
Grading and Scholarship, Undergraduate	37
Graduate Board	14, 16
Graduate Division	19, 42
Greek	67
Grounds	19
Gymnasium	24
Health	24
Historical Note	2
History and International Relations	93
Holidays	20
Honorary Fellowships.....	46
Honors, Undergraduate.....	38
International Relations	93
Junior	38
Laboratory Fees and Deposits	22
Latin	68
Library	19, 25, 43
Loans to Students	24, 28, 43
Location of University	19
Majors, Undergraduate.....	33, 34, 36
Master of Arts Degree	19, 47
Mathematics	99, 102
Matriculation Fee	22
Medical Director	LL 24

Minors	33, 34, 36, 49, 51
Organization of the University	19
Physical Training	24, 35, 37
Physics and Mathematics	99
Press, Clark University	20
Programs of Study	34, 48, 49, 62
Psychology	103
Public Speaking	36
Publication Fees	22
Publications	20, 41, 52, 60
Record, Statement of	22
Refunds of Tuition, Fees and Deposits	22, 48, 49
Register	114
Registration	21, 33
Requirements for the B.A. Degree	35
Requirements for the B.Ed. Degree	63
Requirements for the M.A. Degree	47
Requirements for the Ph.D. Degree	49
Residence	32, 35, 47
Romance Languages	108
Rules and Regulations	40, 45, 46
Scholarships, Graduate	24, 42, 45
Scholarship Society	40
Scholarships, Undergraduate	24, 27
Senate	14
Senior	38
Sociology	79
Sophomore	38
Spanish	111
Special Courses for Teachers	21, 65
Special Graduate Students	44
Special Students	15, 21
Staff	8
Student-Faculty Council	41
Student Life	41
Summary, Attendance	122
Summary, Degrees Conferred	113
Summer School	2, 19, 21, 52, 59, 62
Teachers, Courses for	15, 19, 21, 62, 65
Thesis (M.A.)	48
Trustees, Board of	7
Tuition and Fees	21, 22, 23, 54, 60
Undergraduate Division	19, 27

CLARK UNIVERSITY

The Forty-Sixth Annual
Commencement

JUNE 8 1936



Order of Exercises

Processional: Priest's March from "Athalia" *Mendelssohn*

Invocation REVEREND MAXWELL SAVAGE DD
The First Unitarian Church

Commencement Address WALTER SAMUEL HUNTER
G Stanley Hall Professor
of Genetic Psychology
Clark University

Annual Statement of the President

Announcement The Edmund C Sanford Scholarship

Orchestra: Intermezzo from "L'Arlésienne Suite" *Bizet*

Conferring of Degrees

Benediction

Recessional: Priest's March from "Athalia" *Mendelssohn*

Music by
Clark University Orchestra
H Earle Johnson: Director
Vitold Sukaskas: Concertmaster

The audience will kindly remain
standing during the recessional

CLARK UNIVERSITY

Final Assembly of the 1936 Summer School

August 13, 8:30 p. m.

I. The Community Theater, Clark University, Presents:

The Comedy of Errors

(shortened)

CAST

Solinus, Duke of Ephesus	Fred G. Baxter
Aegeon, merchant of Syracuse	Adolph W. Malkoski
Antipholus of Ephesus	{ twin brothers, sons of Aegeon and Aemilia, but unknown to each other }
Antipholus of Syracuse	
Dromio of Ephesus	
Dromio of Syracuse	James A. Lidgate
Angelo, a goldsmith	Myles R. McAleer
A Merchant	James L. Vance
An Officer	Kenneth W. Mansur
Pinch, a conjurer	Vincent P. Ruseckas
A Page	James L. Vance
Aemilia, wife of Aegeon	Helen L. Maxwell
Adriana, wife of Antipholus of Ephesus	Dorothy M. Swartz
Luciana, her sister	Mabel E. Wray
A Courtezan	Virginia E. Lantz
	Bertha Hall

SCENE: Ephesus

(There will be no intermissions during the action of the play)

II. Conferring of Degrees

Mr. Alexander H. Bullock

Bachelor of Education

Grace Catherine Coffey
Mary Agnes Gilgan
Winnifred Cecilia Kennedy
*Mary Isabel McDonald

Elizabeth Frances McHugh
Alice Maude Mellen
Lelia Sugden
Anna Frances Vail

Master of Arts

Economics and Sociology
James Joseph McGrail

History and International Relations
Charles Alfred Parmiter, Jr.

*—Degree to be awarded on the completion of a slight amount of additional work.

Geography

Trueblood, Lester W. 'as of' Aug. 13, 1936

Candidates for the Degree of Bachelor of Arts

Willard Granville Adams
 Joseph Vincent Baldwin
 Carl Gustaf Berg
 Delphis Bibeau Jr
 Cyril Chandler Blaney
 Andrew Joseph Brosnihan
 William Frank Butler Jr
 Basilio Castaldi
 Robert Porter Eames
 Alonzo Bruce Fairman
 Joseph Harry Feingold
 Harold Mitchell Finer
 Marvin Samuel Fink
 Roger Gaillard Gifford
 Arthur Robert Graham
 Robert Eugene Hansen
 Kenneth Lee Hulbert
 John Robert Keith
 Iver Laine
 Hymen Lavine
 Martin Lax
 Jacob Levine
 Philip John Leyden
 Richard Fink Logan
 Colman Lopatin
 Harvey Heywood MacArthur

Andrew Thomas McCarron
 John William Maher
 William Joseph Maher
 Robert Sanford Meyer
 Carl Elmer Nelson
 John Warren Nystrom
 Robert Shaw Ordway
 Richard Clark Parmelee
 Frank Harmon Patterson
 John Hewett Pierce
 Gerard Roland Pomerat
 George Howard Pride
 Mark Stanley Richmond
 Robert Phillips Rochette
 Ralph Edward Rothera
 Kasper Thomas Serijan
 Samuel Shanbaum
 Ralph Louis Sharrett
 Abraham Solomon
 Otto William Steinhilber
 Kenneth Howard Stewart
 Oiva Axel Terio
 Edmund Albert Vinciguerra
 Arthur Stanley Wilder
 Lincoln Roy Youngquist

WITH HONOR

William Glover Fletcher

Nathan Millman

WITH HIGH HONOR

David Abraham Grodberg

Lawrence Patrick Healey

Leo Lawrence Laskoff

WITH HIGHEST HONOR

Milton Derber

Austin Simon Johnson

THE DEGREE OF BACHELOR OF ARTS "WITH HONORS IN THEIR
 MAJOR SUBJECTS" IS CONFERRED UPON THE
 FOLLOWING CANDIDATES

Basilio Castaldi *in Physics*

Milton Derber *in Economics and Sociology*

William Glover Fletcher *in History and International Relations*

David Abraham Grodberg *in English*

Lawrence Patrick Healey *in Romance Languages*

Leo Lawrence Laskoff *in Economics and Sociology*

Austin S. Johnson *in Romance Languages*

Jacob Levine *in Psychology*

Candidates for the Degree of Master of Arts

Biology

Boleslaus John Syrocki
Myer X Zarrow

Chemistry

Robert John Anicetti
Herman William Domblatt
Albert Philip Giraitis
John Paul Goulding
Marion Jeanette Sears

Economics

William Marvin Gibson
Herbert Walter Hargreaves
Sidney Hirsohn
Goldie Corash Michelson
Paul Robert Walker

Geography

Lloyd Deacon Black
William Biggar Brierly
Johnson Eddy Fairchild
James Alexander Minogue
Angelika Sievers

History and International Relations

Barbara Brown
Norma Adams Dooley
Thomas Murray Hunter
Samuel Levenson
Lois Alyson Studley

Physics

David Lewis Arenberg

Psychology

Carolyn Clayton Cook
Doris Rorden Robinson
Roger Wolcott Russell

Candidates for the Degree of Doctor of Philosophy

Biology

Morton Albert Rubin

Chemistry

Axel Verner Holmgren
Ilmari Fritiof Salminen

Geography

Carol Young Mason
Katheryne Thomas Whittemore

History and International Relations

Nelson Manfred Blake
Katharine Allen Wells

Psychology

Lorrin Andrews Riggs

Annual Collegiate Honors

SENIORS

First Honors

Milton Derber Austin Simon Johnson

Second Honors

Basilio Castaldi Lawrence Patrick Healey
David Abraham Grodberg Leo Lawrence Laskoff

JUNIORS

First Honors

Edwin Louis Goldberg

Second Honors

Henry Samuel Guterman Herbert Ralph Tacker
John Walenty Vaitkus

SOPHOMORES

First Honors

Milton Cotzin

Second Honors

Summer Barton Cotzin Vernon Marshall Grout
Joseph Nathaniel Goff Haskell Philip Wolkowich

FRESHMEN

First Honors

Carroll Durgin Colby William Charles Herrmann
Bert Guterman Allen Shedd Powell

Second Honors

Carl Rheinhold Erikson David Matthew Levenson
Warren Stanley Peterson

EDMUND C SANFORD SCHOLARSHIP

Robert Person

Clark University

BULLETIN OF INFORMATION

NUMBER 126

FEBRUARY, 1936

ANNOUNCEMENT OF

THE SUMMER SCHOOL

JULY 6—AUGUST 14, 1936



WORCESTER, MASSACHUSETTS

SCHEDULE OF LECTURE AND RECITATION HOURS

<i>Instructor</i>	8	9	10	11	12	Afternoon
ILLINGWORTH		English *244	English 113	English 5		
C. JONES	Geography *24		Geography 14		Geography 29	Geography *340†
EKBLAW		Geography 27	Geography *34			Geography 392‡ Geography *370‡
BURNHAM				Geography 191	Geography 190	
LEE		History 111		History *22		History *354†
BILLINGTON	History 101		History 20			History *355†
BRANDENBURG			Economics *4	Economics 2		Economics *32†
BALSAM	Sociology *28	Sociology *21				Sociology *30†
V. JONES			Education *20		Education *308	
GEOGRAPHY STAFF						Geography *30§

NOTE: All of the above courses are Summer School courses. The symbol "SS" before the numeral which distinguishes courses in Summer School from those given during the regular academic year is omitted. *Courses suitable for graduate credit. †Time to be arranged. ‡Monday and Friday afternoons, 1 to 5, in the field. §Wednesdays at 3.

CALENDAR

- July 6 Monday, beginning 9 A.M. Registration Day.
12 M. Opening Assembly.
8-10 P.M. Reception to members of the Summer School.
- July 7 Tuesday, 8 A.M. Lectures and recitations begin.
- July 14 Tuesday, 8:30 P.M. Open lecture. "Pictures of Life in South America from the Caribbean to the Argentine." Illustrated. Dr. Clarence F. Jones.
- July 21 Tuesday, 8:30 P.M. Open lecture. "Economics for Today." Dr. Samuel J. Brandenburg.
- July 28 Tuesday, 8:30 P.M. Open lecture. "The Polar Eskimo: His Land and Life." Illustrated. Dr. W. Elmer Ekblaw.
- August 4 Tuesday, 8:30 P.M. Open lecture. "Some Aspects of Modern Poetry." Readings from representative poets. Professor Illingworth.
- August 13 Thursday, 8:30 P.M. Final assembly. Conferring of Degrees. Caribbean Field Trip begins.
- August 14 Summer session closes.
- September 2 Caribbean Field Trip ends.

All meetings will be held in the Jonas G. Clark auditorium unless announcement to the contrary is given.

During the summer session a series of dramatic productions will be given in the college theatre.

COMMITTEE ON THE SUMMER SCHOOL

THE PRESIDENT OF THE UNIVERSITY

THE DIRECTOR OF THE SUMMER SCHOOL

MESSRS. BLAKESLEE, VAN VALKENBURG, BRANDENBURG

The Bulletin is published in January, February, March, April, May, June, October, November, and December.

Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917, authorized January 24, 1921.

OFFICERS OF INSTRUCTION AND ADMINISTRATION

- WALLACE WALTER ATWOOD, PH.D. *Geography*
President of Clark University and Director of the Graduate School of
Geography, Clark University.
- ROBERT S. ILLINGWORTH, A.M., ED.M. *English*
Director of the Summer School and Associate Professor of English, Clark
University.
- CLARENCE F. JONES, PH.D. *Geography*
Professor of Economic Geography, Clark University.
- WALTER ELMER EKBLAW, PH.D. *Geography*
Professor of Geography, Clark University.
- GUY H. BURNHAM, A.M. *Cartography*
Cartographer, Clark University.
- DWIGHT E. LEE, PH.D. *History*
Associate Professor of Modern European History, Clark University.
- RAY ALLEN BILLINGTON, PH.D. *History*
Assistant Professor of History, Clark University.
- SAMUEL J. BRANDENBURG, PH.D. *Economics*
Professor of Economics and Sociology, Clark University.
- LOUIS BALSAM, PH.D. *Sociology*
Assistant Professor of Sociology.
- VERNON JONES, PH.D. *Education*
Associate Professor of Educational Psychology, Clark University.
- LYDIA P. COLBY *Recorder*
- FLORENCE CHANDLER *Bursar*

THE SUMMER SCHOOL AT CLARK UNIVERSITY

Clark University is now laying special emphasis on fields of study that lead to a better understanding of national and international problems. Geography, Economics, and History and International Relations are of fundamental importance to all students interested in the solution of the larger problems now before the world.

The Summer School program is concentrated in a few closely related departments of study—Geography, History, Economics, English, and Education. The rich library resources of these fields give opportunity for wide reading.

The work of the Summer School is intensive. Courses meet five-times a week. Three courses are considered a full program. Many students will find it advantageous to concentrate all their energies on the work of two courses or even on a single course.

LOCATION AND BUILDINGS

Clark University is located on Main Street about a mile and a quarter southwest of the City Hall. Trolley cars run directly past the University. Taxicab service is available at moderate price.

The office of the Summer School is located in the Jonas G. Clark Hall, which contains also the general offices of the University. Most of the exercises of the Summer School are held in this building. The office of the President of the University and the Geography workroom are in the Geography Building where some classes are held.

In the Science Building are located the lecture room and laboratories of the departments of Physics and Chemistry.

All the classroom, library, and laboratory facilities of the University, so far as they pertain to the subjects of instruction offered, are at the disposal of students of the Summer School.

THE LIBRARY

The Library of the University was provided with a generous endowment by the founder of the Institution, and affords favorable opportunities for study and research. The Library now owns more than 140,000 bound volumes and pamphlets, and the Reading Room receives more than 500 journals. All the privileges of the Library are open to all members of the University, and each member has direct access to every book and journal.

In addition to the library facilities provided by the University, students may avail themselves of the privileges of other excellent libraries in the city. The Worcester Public Library contains 250,000 volumes. The Library of the American Antiquarian Society, housed in the national headquarters of the Society in Worcester, contains more than 500,000 volumes and pamphlets. These libraries are pleased to serve Summer School students.

ADMISSION TO THE SUMMER SCHOOL

Graduates of colleges, technical schools, normal schools, or secondary schools, college students, and teachers in schools of any grade are admitted as a matter of course upon application. Other applicants are admitted upon approval of their qualification for the work which they desire to do.

Students in the College Division of Clark University who desire to have

work done in the Summer School credited toward an A.B. degree are required to obtain the approval of the College Board.

REGISTRATION

Persons who desire to enter the Summer School should detach and fill out the application form which is printed at the end of this BULLETIN and forward it, with the registration fee of two dollars, to the Clark University Summer School. The amount of the registration fee will be deducted from the tuition fee when the latter is paid. Checks should be made payable to Clark University.

The registration of all students in all courses should be completed on July 6. To this end students should, as far as possible, determine before the opening of the session, through personal conference or correspondence with the Director, or the various instructors, the courses in which they expect to register.

Formal registration will take place between 9 A.M. and noon on Monday, July 6, in Jonas G. Clark Hall. All instructors will be on hand for consultation and for signing registration cards between these hours. The opening assembly of the Summer School will be held in the Auditorium, July 6, at twelve o'clock. Class work will begin promptly on Tuesday morning.

CREDIT FOR WORK DONE

Some of the courses of instruction in the Summer School are of college grade, others are strictly graduate courses, and many are equally suitable for advanced undergraduates or graduate students.

Unless otherwise announced, each course is designed to cover the equivalent of two semester hours of credit, and is so credited when applied toward a degree in Clark University. Three courses constitute a full schedule; a maximum of four courses may be taken, but only with the consent of the Director. With the consent of the instructor, students may attend other classes as auditors.

A certificate, with a statement of courses taken and grades received, will be furnished at the close of the session to all students who desire it. In order to obtain a prompt report, students should leave a stamped and addressed envelope at the Recorder's office during the last week of the session.

Summer School courses may be applied toward the fulfillment of the requirements for the degree of Bachelor of Arts, Bachelor of Education, Master of Arts, or Master of Arts in Education, *subject to the general regulations of the University.*

TUITION AND FEES

Students taking two or three courses pay a fee of thirty-five dollars; those who desire to take but one course may do so upon payment of a fee of twenty dollars, which entitles them also to all special privileges of the Summer School. The same charge is made whether students register as auditors or for credit. Students who take a fourth course for credit, will pay an additional tuition fee of \$10, to be paid as a separate item by the end of the second week of the term.

Students registering in the Summer School who have not previously been enrolled in Clark University are required to pay a matriculation fee of five dollars. The fee is paid only once and is not returnable.

Tuition may be paid at any time before 5 P.M. of Friday, July 10, Checks should be made payable to Clark University.

BOARD AND ROOMS

A few rooms are available for men in the Faculty House. The college dormitory will be reserved for women. Reservations may be made by correspondence. Good rooms may be had in private homes near the University at \$3 to \$5 per week. Meals, at moderate prices, may be secured in the vicinity of the University. A list of desirable rooms will be sent on request.

If there is sufficient demand, the college dining-hall will be opened.

BACHELOR OF ARTS DEGREE

Students who have been admitted to the Undergraduate Department of the University may secure not more than six semester hours of credit toward the Bachelor of Arts degree in any one summer session on condition that permission be secured in advance from the College Board and that programs of study be approved by the Dean of the College.

THE BACHELOR OF EDUCATION DEGREE

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year Normal School course or its equivalent is a prerequisite for admission to candidacy and a year of teaching experience is a prerequisite for the degree.

Candidates for this degree may earn the necessary residence credit by attendance at the Summer School or by enrolling in extension courses offered at the University during the regular academic year, or in such regular university courses as may be open to them.

Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.

A normal program for Summer School students consists of three courses, each yielding two semester hours of credit. Two extension courses, each yielding two semester hours of credit, constitute a normal program for teachers in service. Credit toward the degree may also be earned in connection with the field trips offered by the Summer School, but credit so earned may not be used to reduce the minimum residence requirement of 30 semester hours.

Courses designated as "College Courses for Adults" are offered during the regular academic year on Saturday morning and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in four years the equivalent of a year of study in residence.

The general administration of regulations applying to the degree of Bachelor of Education is lodged with the Committee on College Courses for Adults and Special Students. The regulations applying to this degree are summarized in the following paragraphs.

1. **ADMISSION REQUIREMENTS.** The completion of a standard two-year course in a Massachusetts State Normal School, or the reasonable equivalent of such a course.

2. **REQUIREMENTS FOR THE DEGREE:**

- a. At least one year's teaching experience.
- b. At least 30 semester hours of credit earned *in residence* at Clark University.
- c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.
- d. Requirements in particular subjects:
 - (1) Six semester hours in Psychology or Education taken after the completion of the two-year Normal School course.
 - (2) Six semester hours of Laboratory Science taken after the completion of the two-year Normal School course.
 - (3) Ten semester hours of English, which may be taken in whole or in part in the Normal School course.
 - (4) Ten semester hours in foreign language, which may be taken in whole or in part in the Normal School course.
 - (5) Twelve semester hours of Economics, Geography, Government, History, or Sociology, at least six of which must be taken after the completion of the two-year Normal School course.

3. **STANDARD OF SCHOLARSHIP.** The same standard of scholarship is required of candidates for this degree as for the degree of Bachelor of Arts.

4. **ADVANCED STANDING:**

- a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School. This may be reduced in special cases.
- b. Credit will be allowed for work done at other Universities, Colleges or Normal Schools, subject to reasonable regulations.
- c. Not more than 30 semester hours credit may be allowed for home study or extension courses other than the extension courses offered by Clark University expressly for candidates for this degree. The acceptance of any work of this type is subject to the approval of the Committee.

5. **LAPSE OF CANDIDACY.** By vote of the committee on the degree of Bachelor of Education candidacy terminates automatically whenever for a period of two years or more a candidate has failed to complete any course in Clark University yielding credit toward the degree. A candidacy terminated under this rule may be renewed by action of the committee, and such renewal may involve a revision of allowances previously made, both in respect to total credit, and requirements in particular subjects.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Recorder of the University.

SPECIAL COURSES FOR TEACHERS. In keeping with its long established policy, Clark University offers a series of College Courses for Adults designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region. These courses are also open to the general public. When occasion arises the subject of aims and methods of teaching is treated in some of these extension courses.

THE MASTER OF ARTS DEGREE

A student admitted to full graduate standing may satisfy the minimum residence requirement for the Master of Arts degree by attending six summer sessions of six weeks each, and taking a normal program made up exclusively of graduate courses approved by the department in which the student is seeking the degree. The minimum residence requirement may be

met in five sessions, if the Master's thesis is prepared outside summer session periods under the supervision of the department in which the student is a candidate for the degree. In this case, the degree will be conferred not earlier than the June commencement following the completion of the fifth summer session of attendance.

Persons who wish to become candidates for the Master's degree beginning with a summer session, should take up correspondence promptly with Dr. H. Donaldson Jordan, Secretary of the Graduate Board, Clark University. Application blanks with directions for making application for graduate standing will be furnished on request by the Secretary of the Graduate Board. Formal admission to graduate work by the department in which the student seeks the degree should then be secured in advance of the opening of the summer session.

A person who has already entered upon graduate work should arrange his program for the summer session of 1936 by correspondence with the department in which he is a candidate for a degree.

THE MASTER OF ARTS IN EDUCATION DEGREE

In February, 1936, the Trustees of the University voted the establishment of a Department of Education which will give work leading to the degree of Master of Arts in Education. The work of the Department will formally begin at the opening of the academic year 1936-1937, but courses satisfactorily completed in the 1936 summer session by properly qualified students will count toward this degree. The Department will also offer courses which may be counted toward a Bachelor's degree.

Residence requirement. The residence requirement for this degree of Master of Arts in Education is the same as for the Master of Arts degree, which usually means, in the case of Departments which offer work in the Summer School, that not more than one-half the courses for the degree may be taken in summer sessions. Extension course credits may not be counted in fulfilling the requirements for the Master of Arts degree in Education. However, many regular courses which will normally be taken toward this degree will be scheduled in late afternoons and Saturdays in the regular academic year. These will count toward the satisfaction of regular residence requirements.

Course requirements. The student working toward the degree of Master of Arts in Education will be expected to elect one of the following groups of studies as the field in which he wishes to teach: (a) mathematics and natural sciences; (b) history and other social sciences; (c) ancient and modern foreign languages; (d) English, alone or in combination with some related subject.

Prior to receiving the degree, the candidate must have completed not less than five year-courses in one of the above groups, or in a combination of groups approved by the Department of Education. At least one year-course of the five must be taken during residence for the advanced degree and be passed with a grade which will carry graduate credit. In addition to the above requirement in the subject-matter field, 16 semester hours of graduate work in Education will normally be required of the candidate during resi-

dence. Also, the student must present a thesis, or special report, in which he demonstrates not only his grasp of the subject-matter which he plans to teach but also a mastery of the educational principles necessary for such teaching. Work in addition to the above requirements, either in a subject-matter field or in Education, or both, may be required if this seems necessary for the adequate preparation of the candidate.

Admission. Students whose first connection with the Graduate School of the University is in the summer session will not be formally considered as candidates for classification as regular graduate students until after a summer in residence. Students with a better-than-average record from their undergraduate college and those who make superior grades at Clark may expect to be accepted as regular graduate students.

Courses for Graduate Students. The following courses carrying graduate credit in Education are to be offered in the summer session of 1936.

Principles of Education	MR. VERNON JONES
Education for Character and Citizenship	MR. VERNON JONES
Teaching of English	MR. ILLINGWORTH
Educational Sociology	MR. BALSAM

Courses for Undergraduate Students. Students working toward a Bachelor's degree may register for any of the above courses with the permission of the instructor.

THE SUMMER SCHOOL ASSOCIATION

The Summer School Association was organized by the students at the first session of the Summer School in 1921. The Association promotes the social activities of the school during the summer session and holds an annual reunion during the year. Every student is urged to participate in the activities of the Association as they develop during the term.

NEW YORK STATE CLUB

The New York Club of Clark University was organized in 1928. It will hold its first meeting of the summer session of 1936 at 2 P.M., Monday, July 6, in Room 120, first floor of Jonas G. Clark Hall. All members of the Summer School from New York State are requested to be present.

SUMMER TOURIST RAILROAD RATES

Summer Tourist Railroad Rates from Chicago and places west of Chicago will probably be in effect from June to October. Inquiry should be made at local ticket offices.

THE SUMMER SCHOOL ROSTER

The names of students of the Summer School, with their home addresses, will be found in the General Catalogue of the following academic year. Students who desire a list should write to the University after February 1, of the following year.

July 9, 1936

Mrs. L. P. Colby
Clark University

Dear Mrs. Colby:

In Geography 29 the following people are working for graduate credit:

N.E. Greenawalt
Helen M. Boyer
Catherine Ford

Misses Catherine Sullivan and Mary A. Sullivan have registered for the course. They want to get the first half of the course. They had the second half of it in an Extension Class a number of years ago. }

In Geography 29 and 14 I am planning to give only the first half of the course this summer term and the second half of each of these during the next summer I teach. In order to distinguish between the two halves I suggest that we call the course offered this summer SS14A and SS29A. As you may recall during the regular year my Economic Geography class extends through the year as a three semester hour course. I find that I cannot do satisfactory work in six weeks by trying to cover the whole field. Will you please make any necessary record so that on the cards of the students and in the office it is clear that students who take this work in these two courses this summer may complete the work in these courses in another summer and get 2 hours credit this summer and 2 hours credit when they complete the other half.

In Geography 14 Mr. James A. Brammel and Miss Mary M. Murphy want the course for graduate credit. As these students have been admitted to the Graduate School I am glad to make plans for them to do advanced work in order to get graduate credit. During the regular year our graduate students

are required to take this course. In listing it for Summer School work it seemed desirable not to star it for graduate credit because I do teach down somewhat to the level of the students in the Summer School class. However, with such arrangement I have no difficulty in seeing that students who desire graduate credit earn it.

Sincerely yours,

Clarence F. Jones

Clarence F. Jones
Secretary, School of Geography

CFJ/c

DEPARTMENT ANNOUNCEMENTS

The right is reserved to withdraw any course listed in the event of a registration too small to justify its being given.

Courses marked with an asterisk () are primarily for advanced students.*

GEOGRAPHY

The courses in geography announced here include undergraduate and graduate courses in the several phases of the subject. Certain fundamental courses are offered every summer. Others are given every other year or occasionally.

Students whose assignments involve the preparation of maps or who wish to practice map-making will appreciate the opportunity for special help by the cartographer, Mr. G. H. Burnham, in the geography workroom.

SS14A Economic Geography. A study of the relation of physical and economic conditions to the fishing, grazing, farming, lumbering, mining and manufacturing regions of the world. DR. C. F. JONES.

Daily, except Saturday, at 10.

***SS24. South America.** The important physiographic regions and types of climates; vegetation; transportation; the people; the major problems of the South American Republics; the geographic regions of the continent; the future of South America. DR. C. F. JONES.

Daily, except Saturday, at 8.

SS29A Geographic Influences in American History. The relation of geographic conditions to the exploration, early settlement, and expansion of the American people from the Atlantic to the Pacific. DR. C. F. JONES.

Daily, except Saturday, at 12.

SS27. Human Geography. A survey of man's occupancy of the earth to determine the part that geographic influences have played in shaping the movements of peoples, the course of civilization and racial development, and the destiny of nations. DR. EKBLAW.

Daily, except Saturday, at 9.

***SS34. Plant Geography.** An introduction to the distribution of plant forms and plant societies over the earth, their character and adaptations, and the factors affecting them; the relationships of types of vegetation to the regions in which they are found and to their effect upon man's activities. DR. EKBLAW.

Daily, except Saturday, at 10.

SS392. Mapping and intensive field study of a small community, to supplement other geographic work. Primarily for candidates for the Master of Arts degree in Geography; open to advanced students by special permission. DR. EKBLAW.

Monday and Friday afternoons, 1-5, in the field.

Conference Hour to be arranged.

SS191. Graphics and Cartography. A course in the construction of graphs and maps designed to aid teachers in becoming acquainted at first hand with the most effective methods of graphically presenting facts and with the most commonly used map projections. MR. BURNHAM.

Daily, except Saturday, at 11.

SS190. Mathematical Geography. A study of the earth's form, size and motions; its relations to the other bodies of the Universe; latitude and longitude; seasons; zones; tides; almanacs; time; calendars; changing length of day and night with practical applications to map making, surveying, navigation and other phases of every-day life. MR. BURNHAM.

Daily, except Saturday, at 12.

***SS30. Seminar in Geography.** An organized discussion of research problems and theses. Attendance is required of all students preparing theses, or conducting research. THE GEOGRAPHY STAFF.

Wednesdays at 3.

***SS340. Research in Economic Geography or Regional Geography.** For properly qualified students. DR. C. F. JONES.

***SS370. Research in Human Geography or Plant Geography.** For properly qualified students. DR. EKBLAW.

SS202. Caribbean Field Trip. DR. C. F. JONES.

HISTORY

SS111. History of Europe since 1830. A survey course in which the second volume of C. J. H. Hayes, *A Political and Cultural History of Modern Europe*, will be used. Open to graduate students with special permission. DR. LEE.

Daily, except Saturday, at 9.

***SS22. European International Relations 1870-1919.** A Study of the origins and diplomacy of the World War. DR. LEE.

Daily, except Saturday, at 11.

SS101. American History since 1850. A survey course emphasizing the newer points of view in the study and writing of history. DR. BILLINGTON.

Daily, except Saturday, at 8.

SS20. Social and Intellectual History of the United States, 1825-1900. This course will trace with considerable detail the evolution of American life from Jackson's administration to the close of the nineteenth century. Economic movements, humanitarian reforms and religious developments will be stressed as well as artistic and intellectual progress. DR. BILLINGTON.

Daily, except Saturday, at 10.

***SS354. Research in the History and International Relations of Europe.** For properly qualified graduate students who wish guidance in the study of some special field of interest. DR. LEE.

***SS355. Research in the History of the United States.** DR. BILLINGTON.

ECONOMICS AND SOCIOLOGY

SS2. Problems of Economics. A study of specific economic problems such as banking, taxation, international trade and tariffs, transportation, agriculture, etc. The topics selected serve not merely to illustrate economic principles but also to build up a better understanding of contemporary economic society. The course is complementary to Economics SS1 offered in 1935. DR. BRANDENBURG.

Daily, except Saturday, at 11.

***SS4. Economic History of the United States.** A survey of national economic progress, with emphasis on the post Civil War period. Topics studied will center about public land policy, transportation development, tariffs, especially their effect on industrial development, monetary and fiscal policies, immigration, population, and labor problems, recent economic changes and attempted reforms. DR. BRANDENBURG.

Daily, except Saturday, at 10.

***SS28. Sociological Problems in Education.** A consideration of such major problems as the relationship between the school, the home, industry, and the church will be considered from basic social viewpoints. An attempt will be made to trace vital relationships between the teachers, the parents, the work-a-day world, and other major social factors affecting the life of the student. This course will try to integrate the problems of school and society. There will be reading, exchanges of experiences, discussion, and lectures. DR. ~~BALSAM~~ DAVIS.

Daily, except Saturday, at 8.

***SS21. The Family and Marriage.** This course will attempt to view the sociological basis of family life with a minimum of background in history and a major attention placed upon the various problems which face the family and marriage beginning with the "Industrial Revolution" and the urbanization of American life. There will be readings, one field trip, discussions, and lectures. DR. ~~BALSAM~~ DAVIS.

Daily, except Saturday, at 9.

***SS32. Research in Selected Economic Problems.** For properly qualified graduate students. DR. BRANDENBURG.

***SS30. Research in Selected Sociological Problems.** For properly qualified graduate students. DR. ~~BALSAM~~ DAVIS.

ENGLISH

SS5. Stagecraft. The course is designed primarily to give training in dramatic expression. Further, it takes into consideration the allied arts of the theatre, the function of stage settings, the procedure in mounting a play, the evolution of the design through sketches and miniature models, costume, properties, make-up, pantomime, rehearsals, directing, choice of play, and theatre organization and management. The student is familiarized with all the responsibilities of play production. In so far as possible, members of this class will be chosen for the productions of the summer theatre.

Daily, except Saturday, at 11.

SS113. Modern British Drama. The course will include the reading of representative plays by contemporary English, Irish and Scotch dramatists. Significant movements in the theatre will likewise be discussed through their chief exponents. PROFESSOR ILLINGWORTH.

Daily, except Saturday, at 10.

***SS244. The Teaching of English: the Interpretation and Appreciation of Literature.** The object of the course is to deepen the student's knowledge and appreciation of the forms of literature: novel, drama, essay, and poetry; and to offer specific suggestions for classroom methods. Special emphasis will be given to the oral interpretation of poetry. PROFESSOR ILLINGWORTH.

Daily, except Saturday, at 9.

Also - Playwriting - Daily, except Sat. at 12. Mr. Illingworth

EDUCATION

***SS20. Education for Character and Citizenship** A study of the psychology of character and citizenship and an evaluation of various proposed methods of teaching in this field. DR. VERNON JONES.

Daily, except Saturday, at 10.

***SS308. Principles of Education.** A survey of the aims, responsibilities, and general methods in education. Particular attention will be given to the secondary school.

Daily, except Saturday, at 12.

The Teaching of English—see English *244.

Sociological Problems in Education—see Sociology *SS28.

FRENCH AND GERMAN

While no provision is made for regular courses in French and German, students who wish to pursue either or both of these languages during the Summer Session may make arrangements to do so. A skilled instructor is available for lessons in French and German to individuals or groups at moderate cost. The lessons, if desired, will be given at the University. The work in these languages will be adapted to the individual needs of the students whether for elementary or advanced work or for a reading knowledge of scientific works. Further information will be given on request.

SS202. Caribbean Field Trip. A field trip to the Caribbean Region sailing from New York City, Thursday, August 13 and returning to New York, Wednesday, September 2. The trip involves work in Cuba, the Canal Zone, Panama, Colombia and Jamaica. The trip is in charge of Dr. Clarence F. Jones. Two hours credit. A third hour will be granted for additional work.

NOTE. Minimum cost including all expenses from New York about \$295.

TO THE CLARK UNIVERSITY SUMMER SCHOOL:

I wish to be enrolled as a student in the Summer School for 1936, and enclose with this the Registration fee of two dollars.

Name

Address

Date

Occupation during the past academic year

.....

.....

Graduate of what college, normal school, or other educational institution, with date of graduation?

.....

.....

.....

TENTATIVE LIST OF SUMMER SCHOOL COURSES WHICH APPLICANT DESIRES TO ENTER

.....

.....

.....

.....

.....

(Describe by Subject and Number, i.e., Geography 101)

Have you been accepted as a candidate for a degree?

At what institution? What degree?

Have you ever attended the Clark University Summer School?

If so, what was year of last attendance?

Clark University Bulletin

**Announcement of the Organization
of the
Graduate Department of Education
Leading to the M.A. Degree**

Including Courses for 1936-37



Worcester, Massachusetts
April 1936

Clark University Bulletin

NUMBER 128

APRIL, 1936

**Announcement of the Organization
of the
Graduate Department of Education
Leading to the M.A. Degree
Including Courses of Instruction
for 1936-1937**

The Bulletin is published in January, February, March, April, May, June,
October, November, and December

Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917 authorized January 24, 1921.

DEPARTMENT OF EDUCATION

FACULTY

WALLACE WALTER ATWOOD, PH.D.
President

VERNON JONES, PH.D.
Chairman of the Department and
Associate Professor of Educational Psychology
Visiting Lecturer (to be appointed)

WITH THE COOPERATION OF

PHILIP HUDSON CHURCHMAN, PH.D.
Professor of Romance Languages

ROBERT STANLEY ILLINGWORTH, A.M., ED.M.
Associate Professor of English

LOUIS BALSAM, PH.D.
Assistant Professor of Sociology

DEPARTMENT OF EDUCATION

GENERAL STATEMENT

In 1936 the Trustees of the University voted to establish a Department of Education designed primarily to offer work leading to the degree of Master of Arts in Education.

It has become increasingly evident that candidates for the bachelor's degree who include a few courses in Education in their undergraduate programs are not being adequately prepared to meet the demands for scholarly and professional training required by the better school systems. The Department of Education has been established with the aim of providing a fifth year of well organized professional work for students who are interested in preparing for educational work, particularly at the secondary school level. A limited number of courses will be open to juniors and seniors in the undergraduate division upon the consent of the instructor, but the Department recommends that undergraduate students concentrate upon the subject matter fields in which they desire to teach, reserving for the fifth year the professional work in the theory and practice of Education.

The requirements for the degree of Master of Arts in Education cannot be adequately stated in terms of courses to be taken, because the evaluation of the work of each student will be made on the basis of achievement rather than on the basis of courses completed. However the minimum essentials in terms of course requirements are outlined below.

GRADUATE WORK

The rules and regulations stated in the current catalogue (See "Graduate Division"—"Rules and Regulations") as applicable to the degree of Master of Arts also govern the degree of Master of Arts in Education with the following changes and additions:

Course requirements—The student will be expected to elect one of the following groups of studies as the field in which he wishes to teach:

- (a) Mathematics and natural sciences
- (b) History and other social sciences
- (c) Ancient and modern foreign languages
- (d) English, alone or in combination with some related subject.

Prior to receiving the degree, the candidate must have completed not less than 5 year-courses in one of the above groups, or in a combination of groups approved by the Department of Education.

At least one year-course of the five must be taken during residence for the advanced degree and must be passed with a grade satisfactory for graduate credit. In addition to the above requirement in the subject-matter field, sixteen semester hours of graduate work in Education will normally be required of the candidate during residence. The program of courses to yield these sixteen hours must be approved in advance by the department. Changes in the proportion of Education and subject-matter courses may be made by the department on the basis of the candidate's previous training. Work, additional to the above requirements, either in the subject-matter field or in Education, or both, may be required if this seems necessary for the adequate preparation of the candidate.

Thesis—The candidate must present a "thesis," or "special report," in which he demonstrates not only his grasp of the subject-matter which he plans to teach but also a mastery of the educational principles necessary for such teaching. The thesis will be adapted to the vocational needs of the candidate and will not be regarded as an index of his capacity for research. In this respect it will differ somewhat from the thesis required of candidates for the degree of Master of Arts in other fields.

Work for Teachers in Service—Teachers in service who can meet the regular admission requirements* to the Graduate School may satisfy part or, in some cases, all of their course requirements for the Master's degree through classes scheduled in the late afternoon, on Saturdays, and in the Summer Session. The maximum number of semester hours which may be applied toward the degree in one Summer Session is normally four. The maximum number of courses which may be taken in the regular session by a part-time student is two year-courses or four half-year courses. A teacher applying for this maximum program must have the approval of the Chairman of the Department of Education and of the Superintendent of Schools under whom he is employed.

Tuition Fee—The tuition for full-time students in the University is \$200 per year. Students carrying small programs are charged at the rate of \$10 per semester hour of course credit. There are no scholarships or fellowships available in the Department of Education. Loans are available to full-time students up to one-half the tuition fee.

Application—All inquiries and requests for application blanks should be sent to the Chairman of the Department.

*See pages 43-44 of the general catalogue (1936) for a statement of the admission requirements.

COURSES IN EDUCATION*

201a. Educational Psychology. (Formerly Education 14) A study of psychology as it bears upon the problem of Education.

Two hours, first semester. F., 4-6.

MR. JONES

202b. Individual Differences and Educational Adjustments. (Formerly Education 15) The course will include a study of the bright, the dull, the psychoneurotic, and the delinquent child. School discipline will also be considered.

Two hours, second semester. F., 4-6.

MR. JONES

203a. Philosophy of Education. (Formerly Education 17) A survey of the philosophy of education as it bears upon modern trends and developments in teaching and school administration.

Two hours, first semester. Tentatively scheduled M., 4-6.

INSTRUCTOR TO BE ANNOUNCED

204b. The Teaching of Modern Languages. (Formerly French 101) A study of the major problem in the teaching of French. Incidental references will be made to German and Spanish. Pre-requisite, third-year college French or German course, taken previously or at the same time.

Two hours, second semester. W., 4-6.

MR. CHURCHMAN

205a. The Teaching of English. (Formerly English 144) Methods of teaching poetry, drama, novel, short story, oral and written composition.

Two hours, first semester. M., 4-6.

MR. ILLINGWORTH

Sociology 27. Educational Sociology. A study of Education (organized and unorganized) and intellectual leadership in their relationships to politics, government, the family, religion, patriotism, business cycles and other socio-economic phenomena. Education in the United States as it is and as it may be, will receive particular attention.

Divisible course.

Two hours, through the year. M., 2-4.

MR. BALSAM

308a. Principles of Secondary Education. (Formerly Education 16) A survey of the aims, responsibilities, and general methods in secondary education.

Two hours, first semester. Th., 4-6.

MR. JONES

*Beginning September, 1936.

309b. History of Education and Comparative Education. A historical and comparative survey of the educational theories and systems in England, Germany, France, and the United States. Special attention will be given to those problems and policies at home and abroad which have had greatest significance for modern education.

Two hours, second semester. M., 4-6.

INSTRUCTOR TO BE ANNOUNCED

310a. Education for Character and Citizenship. (Formerly Education 19) A survey and critical evaluation of the experimental evidence in the fields of psychology and education and its application to character and citizenship training in junior and senior high schools.

Two hours, first semester. S., 11-1.

MR. JONES

311b. Educational Guidance. (Formerly Education 13) A survey of the main points of view and techniques of educational diagnosis and guidance in the junior and senior high school.

Two hours, second semester. S., 11-1.

MR. JONES

313a. Advanced Educational Psychology: Group Methods of Experimentation. The purpose of the course will be primarily to give practice in the most valuable statistical methods for educational and psychological experimentation.

Two hours, first semester. Tu., 4-6.

MR. JONES

314b. Advanced Educational Psychology: Tests and Measurements. A systematic and critical survey of psychological and educational tests. Both theoretical and applied aspects of testing will receive consideration.

Two hours, second semester. Tu., 4-6.

MR. JONES

315a. Apprenticeship Teaching. An informal course consisting of extensive apprenticeship work in the field or fields in which the student plans to teach. Individual supervision to be given by critic teachers in cooperating schools.

Two hours. Time to be arranged individually with each student.

CRITIC TEACHERS AND MR. JONES

316a. Geography in Education. A critical examination of the objectives in teaching geography at the various stages in elementary and high schools as well as in teacher-training institutions and liberal arts colleges. The contribution which geography should make in the study of history, economics, social problems, current events, and international relations. Some attention will be given to the selection and organization of material and the technique of class-room procedure. Prerequisite of 12 semester hours of college work in geography or its equivalent.

Two hours, first semester. Tu. 4:20-6.

MR. ATWOOD, SR.

